EZ Hub 10/100 5608DS/5616DS

SMC's EZ Hub™ 10/100 5608DS/5616DS is a compact dual-speed hub featuring 8/16 10BASE-T/100BASE-TX auto-sensing ports. This hub provides an ideal bridge between 10 Mbps and 100 Mbps Ethernet networks, all for a price that is comparable to a standard Ethernet or Fast Ethernet hub. Moreover, the EZ Hub is completely plug and play, there is no configuration necessary.

Features and Benefits

- IEEE 802.3 and 802.3u compliance ensures compatibility with standards-based hubs, switches and cards from any vendor
- 8/16 dual-speed 10/100 Mbps auto-sensing ports
- Plug and play—nothing to configure
- Daisy-chain port for network device connections with straight-through cable
- Built-in wiring crossovers on all ports allow connections to servers and workstations to be made with straight-through cabling
- "At-a-glance" LEDs for port and system status monitoring
- Jabber lock-up function automatically stops transmission of abnormal frames to prevent network disruption
- Automatic polarity detection and correction
- Desktop and rack mountable

Front Panel Ports

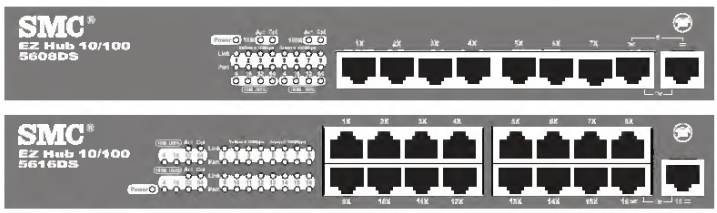
This EZ Hub 10/100 model features 8/16 10BASE-T/100BASE-TX ports with RJ-45 connectors located on the front panel of the hub. Each port contains a built-in wiring crossover that allows for the use of straight-through twisted-pair cable for connections to devices without built-in crossover ports (i.e., workstations, printers, etc.).

Port 8/16 on the hub doubles as a crossover port and a straight-through daisy-chain port making it convenient to connect straight-through cable from the EZ Hub 10/100 to a crossover port on another device.

Front Panel LEDs

The front panel of the hub provides status LEDs for "at-a-glance" system monitoring. The following table details the functions of the various indicators:

Port and Hub Status LEDs		
LEDs	**Condition**	**Status**
Power	Green	Hub is receiving power.
Link	Yellow	Indicates a valid 10BASE-T connection between port and attached device.
	Green	Indicates a valid 100BASE-TX connection between port and attached device.
10M/100M Col	Flashing Yellow	Indicates that a packet collision has been detected on the 10 / 100 Mbps segment.
10M/100M Act	Flashing Green	Indicates that the port is transmitting or receiving data.
Partition	Yellow	Port has been partitioned due to an abnormal condition.
10M/100M Util%	Green	Shows segment bandwidth utilization at 4/16/32%.
	Yellow	Shows segment bandwidth utilization at 64%.



Rear Panel

The AC power receptacle is located on the rear panel of the hub.

Installing the Hub

The EZ Hub 10/100 can be placed on a desktop or shelf, or installed in a standard 19-inch equipment rack.

Equipment Checklist

After unpacking the EZ Hub 10/100, check the contents of the box to be sure you've received the following components:

- EZ Hub 10/100 SMC5608DS or SMC5616DS
- Appropriate AC Power Cord
- Four rubber foot pads
- Rackmount Kit
- SMC Warranty Registration Card
- This User Guide

Selecting a Site

Be sure to follow the site selection guidelines below when choosing a location:

- Select a suitable location for the hub:
  - It should be accessible for installing, cabling and maintaining the hub.
  - The temperature and humidity should be within the ranges listed in the specifications.
  - The status LEDs should be clearly visible.
  - There should be adequate space (approximately two inches) on all sides for proper air flow.
- Before rack mounting the hub, pay particular attention to the following factors:
  - *Temperature*: Since the temperature within a rack assembly may be higher than the ambient room temperature, check that the rack-environment temperature is within the specified operating temperature range.
  - *Mechanical Loading*: Do not place any equipment on top of a rack-mounted hub.
  - *Circuit Overloading*: Be sure that the supply circuit to the rack assembly is not overloaded.
  - *Grounding*: Rack-mounted equipment should be properly grounded. Particular attention should be given to supply connections other than direct connections to the mains.
- Make sure twisted-pair cable is always routed away from power lines, fluorescent lighting fixtures and other sources of electrical interference such as radios, transmitters, etc.
- Make sure that a properly grounded power outlet is within 8 feet (2.44 meters) of the hub and is powered from an independent circuit breaker. As with any equipment, using a filter or surge suppressor is recommended.

Instructions

1. **Positioning the Hub:** For desktop or shelf mounting, attach the four adhesive foot pads to the bottom of the hub. For rack-mounting, attach the mounting brackets on both sides of the hub with the screws provided, then install the hub in the rack.
2. **Applying Power:** Plug one end of the power cable into the power receptacle at the back of the hub, and the other end into an appropriate electrical outlet. Check the Power LED to be sure power is on.

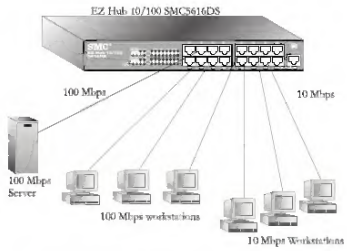
   Note: It is not necessary to power off the hub before connecting or disconnecting any UTP cables, as these actions *will not* disrupt the operation of other devices attached to the hub.
3. **Connecting PCs:** Connect each PC to an RJ-45 port on the hub using a straight-through twisted-pair cable segment, maximum 100 meters (328 ft.). The EZ Hub 10/100 will support up to 8/16 PCs. Note that if you are using the daisy-chain port you cannot use the crossover port on Port 8/16. See "Cable Specifications" and "Connectivity Guidelines" in this guide for further information.
4. **Cascading Hubs and Other Network Devices:** If you need more ports, connect a crossover port on another device to the daisy-chain port on the hub using straight-through twisted-pair cable, maximum 100 meters (328 ft.). Note that if you are using the daisy-chain port, you cannot use the fixed crossover port on Port 8/16.

   When cascading hubs, refer to the **SMC 3 - 2 Rule** for 100 Mbps and the **SMC 5 - 4 Rule** for 10 Mbps. Remember that only two Fast Ethernet Class II hubs may be cascaded, and that the total network diameter is limited to a maximum of **205 meters (672.4 ft.)**.

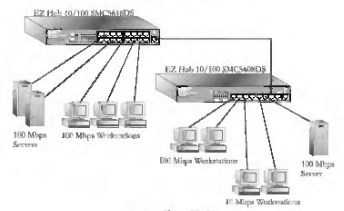
   See "Cable Specifications" and "Connectivity Guidelines" in this guide for further information.

Sample Applications

Some typical applications for the EZ Hub 10/100 5608DS/5616DS are illustrated below:



Standalone LAN



Cascading Hubs

Troubleshooting

1. Symptom

Power LED does not light after power on.

Probable Causes

Power outlet or power cord may be defective.

Possible Solutions

- Check for loose connections.
- Check the power outlet by using it for another device.
- Replace the power cord.

2. Symptom

Link LED does not light after connection is made.

Probable Causes

Hub port, network card or cable may be defective.

Possible Solutions

- Check that the hub and attached device are both powered on.
- Be sure the network cable is connected to both devices.
- Verify that Category 5 cable is used for 100 Mbps connections and that the length of any cable does not exceed 100 meters (328 feet).
- Check the network card and cable connections for defects.
- Replace the defective card or cable if necessary.

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1. Technical Specifications, Connections and Chassis Overview

Index of this chapter:

1.1 Technical Specifications
1.2 Connections / Control Facilities
1.3 Chassis Overview

1.1 Technical Specifications

1.1.1 Reception

Tuning system	:	PLL
Colour systems	:	PAL B/G, D/K, I
	:	SECAM B/G, L/L'
Sound systems 14"	:	Mono
Sound systems 21"	:	Mono
	:	Nicam B/G, D/K, I, L
A/V connections	:	NTSC 3.58
	:	NTSC 4.43
Channel selections	:	100 channels
	:	UVSH
IF frequency	:	Systems B/G, D/K, L, I: 38.9 MHz
	:	System L': 33.95 MHz
Aerial input	:	75 Ω, Coax

1.1.2 Miscellaneous

Audio output (RMS) 14"	:	1x 1 W Mono
Audio output (RMS) 21"	:	1x 4W Mono
	:	2x 3 W Mono
Mains voltage	:	220 - 240 V
Mains frequency	:	50 Hz
Ambient temperature	:	+ 5 to + 45 deg. C
Maximum humidity	:	90 %
Power consumption	:	50 W (10 %)
Standby Power consumption	:	< 2 W

1.2 Connections / Control Facilities

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1.2.2 Rear Connections 14" & 21"

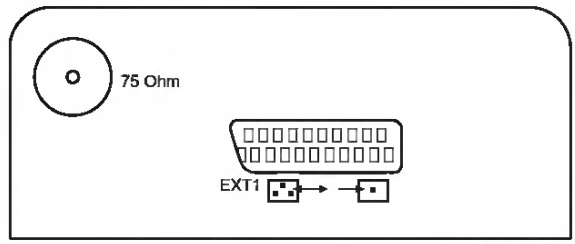

Figure 1-3 Rear Connections

TV Aerial In

Aerial input : 75 Ω, Coax (IEC-type)

External 1: RGB in + CVBS in/out

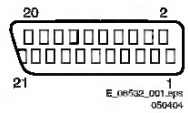

Figure 1-4 SCART connector

1	- Audio	R (0.5 V_{rms} 1 kΩ)	⊖→
2	- Audio	R (0.5 V_{rms} 10 kΩ)	→⊕
3	- Audio	L (0.5 V_{rms} 1 kΩ)	⊖→
4	-	GND	⏚
5	-	GND	⏚
6	- Audio	L (0.5 V_{rms} 10 kΩ)	→⊕
7	- Blue	(0.7 Vpp / 75 Ω)	→⊕
8	- CVBS-status	0 - 2.0 V: INT 4.5 - 12 V: EXT 4:3	

Overview

Customers today need improved availability solutions that minimize or eliminate downtime. Compaq addresses this need by providing PCI Hot Plug technology that allows a PCI adapter to be added, upgraded, or replaced while the bost system is running and while other adapters in the system provide uninterrupted service. PCI Hot Plug technology adds to other high-availability solutions presently available from Compaq such as Recovery Server Options, Redundant Netelligent Network Interface Controllers (NICs), hot-pluggable power supplies, hot-pluggable fans, and bot-pluggable SCSI drives.

Cost of Downtime

Compaq's decision to develop PCI Hot Plug technology is focused on addressing a key customer issue: as computing environments grow more complex, the business costs of unplanned downtime are soaring. The increasing cost of unplanned downtime in business-critical environments, compounded by the time spent tracking the source of network or component failures, is creating a greater need for improved higher availability solutions like PCI Hot Plug. Due to the growing reliance upon computer networks, events resulting in system downtime, whether planned or not, can cripple an organization. Regardless of the cause, the common denominator to all system downtime is a high cost to a customer's business.

A survey of 450 Fortune 1000 companies by Find/SVP[1] found that the average outage across industries lasts four hours and costs $330,000. A typical company experiences nine outages per year, resulting in annual losses of almost $3 million (excluding the cost of lost employee productivity). Actual costs of downtime, however, can vary widely based on individual company size, business type, industry application environment, and type of outage.

Table 1 illustrates the financial impact of system downtime on various industries.[2]

Table 1. Financial Impact of System Downtime

Industry	Business Operation	Industry Cost Range (per hour)	Avg. Cost per Hour of Downtime
Financial	Brokerage Operations	$5.6M to $7.3M	$6.45M
Financial	Credit Cards/Sales Authorization	$2.2M to $3.1M	$2.6M
Media	Pay-per-view	$67K to $233K	$150K
Retail	Home Shopping (TV)	$87K to $140K	$113K
Retail	Home Catalog Sales	$60K to $120K	$90K
Transportation	Airline Reservations	$67K to $112K	$89.5K
Media	Teleticket Sales	$56K to $82K	$69K
Transportation	Package Shipping	$24K to $32K	$28K
Finance	ATM Fees	$12K to $17K	$14.5K

[1] Source: Dataquest, Perspective, Sept, 30, 1996
[2] This table represents only examples of downtime costs. Actual costs may vary. Source: Dataquest, Perspective, Sept. 30, 1996

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SPECIAL NOTES ON LCD MONITORS

The following symptoms are normal with LCD monitor and do not indicate a problem.

NOTES

- Due to the nature of the fluorescent light, the screen may flicker during initial use. Turn off the Power Switch and then turn it on again to make sure the flicker disappears.
- You may find slightly uneven brightness on the screen depending on the desktop pattern you use.
- The LCD screen has effective pixels of 99.99% or more. It may include blemishes of 0.01% or less such as a missing pixel or a pixel lit all of the time.
- Due to the nature of the LCD screen, an afterimage of the previous screen may remain after switching the image, when the same image is displayed for hours. In this case, the screen is recovered slowly by changing the image or turning off the Power Switch for hours.

BEFORE YOU OPERATE THE MONITOR

FEATURES

- 48cm(19") TFT Color LCD Monitor
- Crisp, Clear Display for Windows
- ***Recommened Resolutions: 1280 X 1024 @60Hz***
- EPA ENERGY STAR®
- Dual Input (DVI + Analog) (Only dual-input model)
- Ergonomic Design (TCO'03 Approved)
- Space Saving, Compact Case Design

CHECKING THE CONTENTS OF THE PACKAGE

The product package should include the following items:

1. LCD Monitor
2. Owner's Manual
3. Power Cord
4. 15-pin D-Sub Cable
5. DVI Cable (Only dual-input model)
6. Audio Cable
7. Pivot Software (Only AL1922 r)
8. Quick Start Guide

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FCC INFORMATION

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

WARNING *Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.*

Canadian Standards Association

This device must be powered by a CSA approved power supply or a power supply meeting the requirements of CS03, Part I Section 1.4.2.

FCC regulations require that the following information be provided in this manual:

1. This equipment complies with Part 68 of the FCC rules. On the bottom of the equipment housing is a label that shows the FCC registration number for this equipment. If requested, provide this information to the telephone company.

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Technical Specifications

Product Description

The HP 98628A and 98691A are microprocessor-based (Zilog Z-80A or equivalent) data communications interfaces that fit the I/O backplane of HP Series 200 computers. The interface includes on-board read-write (RAM) memory for buffering and other needs. The microprocessor performs protocol management and other data communication functions, freeing the mainframe processor for other tasks. Protocol(s) supported by the interface depend on what programs are stored in the Program ROM that is plugged into the socket on the interface card.

Physical Description

Size: 135 mm by 170 mm (5.3 in by 6.6 in)
Weight: 310 grams (11 ounces)

Environmental Range

Temperature: 0°C to 45°C (32 to 113°F)
Humidity: 0 to 80% non-condensing

Electrical Specifications

98628A power consumption (typical)

+5 V @ 710 mA
+12 V @ 37 mA
−12 V @ 60 mA

The following adapters also obtain power through the HP 98628 interface. Their consumption should be added to the interface power consumption when they are used. Typical values are shown.

HP 13264A Data Link Adapter:

+5 V @ 30 mA
+12 V @ 160 mA
−12 V @ 23 mA

HP 13265A Modem:

+5 V @ 100 mA
+12 V @ 45 mA
−12 V @ 45 mA

HP 13266A Current Loop Adapter:

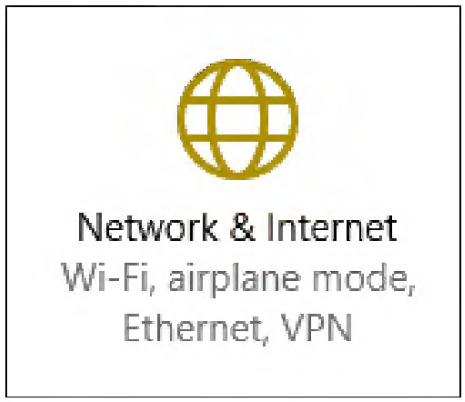
+5 V @ 200 mA
+12 V @ 90 mA
−12 V @ 80 mA

Electrical Interface Compatibility (with appropriate cables)

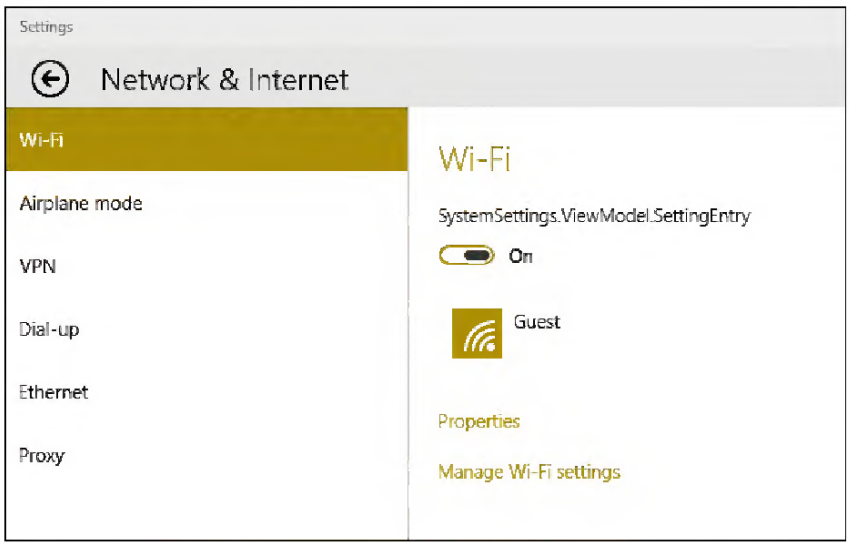
RS-232C (similar to CCITT V.24/V.28)
RS-449/RS-423 (similar to CCITT V.10)
RS-449/RS-422 (similar to CCITT V.11)[1]

1 RS-422 cables for this interface are not available from Hewlett-Packard Company

4. Select **Network & internet**.



5. You will see a list of available wireless networks. Select the one you wish to use.



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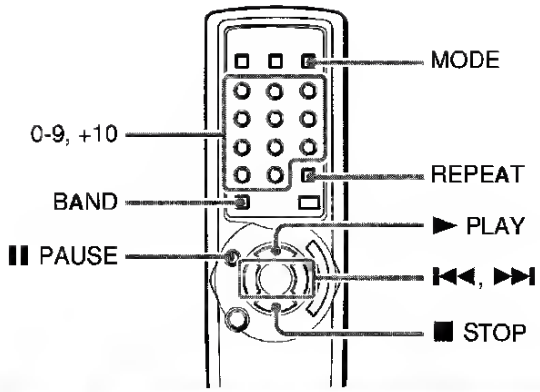
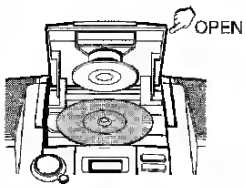


B MANEJO DEL CD

1 Pulsar CD.
Se enciende el aparato y se ilumina el indicador CD.

2 Pulsar OPEN para abrir el compartimiento del disco. Colocar un disco con el lado impreso hacia arriba y cerrar el compartimiento.



Se indica en la pantalla el número total de pistas y el tiempo total de reproducción.

3 Pulsar *►II PLAY/PAUSE/PRESET para empezar a reproducir.
Se indica en la pantalla el número de la pista que se está reproduciendo y el tiempo de reproducción desde el principio de la pista.
* o ► PLAY en el control remoto

■ **STOP/MEMORY** – Interrumpe la reproducción.
***►II PLAY/PAUSE/PRESET** – Hace una pausa en la reproducción. Pulsar de nuevo para seguir reproduciendo.
* o II PAUSE en el control remoto
I◄◄,►►I SKIP/SEARCH – Busca un punto particular durante la reproducción. Mantener pulsado I◄◄ o ►►I y soltarlo luego.
– Para saltar al principio de una pista, pulsar I◄◄ o ►►I repetidamente.
***REPEAT/FM MODE/OSC** – Repite una pista o todas las pistas. Seleccionar como sigue:
⊂ 1: Se repite la reproducción de una sola pista. Seleccionar la pista con I◄◄ o ►►I.
⊂: Se repite la reproducción de todas las pistas.
* o REPEAT en el control remoto

Pulsar CD **para empezar a reproducir cuando el aparato está apagado.** El aparato se enciende y se empieza a reproducir el disco cargado (función de reproducción directa).
Cuando se carga un disco mientras parpadea el indicador CD en el paso 2, la reproducción empieza sin pulsar ►II.

Para seleccionar directamente una pista con el control remoto, pulsar los botones numéricos 0-9 y +10. El CD empieza a reproducirse desde la pista seleccionada y continúa hasta el final del disco.
Ejemplo:
Para seleccionar el número 25, pulsar +10, +10 y 5.
Para seleccionar el número 10, pulsar +10 y 0.

Daspués da la ascucha, pulsar POWER ⏻ STANDBY para apagar el aparato.

NOTA
- No usar discos de formas irregulares (ejemplo: octogonales, en forma de corazón, etc.). Su uso puede producir errores de funcionamiento.
- No colocar más de un disco compacto dentro del compartimiento del disco.
- No intentar abrir el compartimiento del disco durante la reproducción.
- No tocar la lente. De hacerlo el aparato puede funcionar incorrectamente.

REPRODUCCIÓN PROGRAMADA

Se puede programar la reproducción de hasta 30 pistas de un disco.

1 En la modalidad de parada, mantener pulsado *■ STOP/MEMORY hasta que "M" parpadee en la pantalla.

* o ■ en el control remoto

2 Pulsar I◄◄ o ►►I para seleccionar una pista y pulsar después ■ STOP/MEMORY para almacenarla en la memoria.

Selección de una pista con el control remoto
Pulsar los botones numéricos 0-9 y +10.

3 Repetir el paso 2 para programas otras pistas.

4 Pulsar ►II para empezar la reproducción.

Para comprobar el programa, pulsar I◄◄ o ►►I en la modalidad de parada.
Para borrar el programa, pulsar ■ en la modalidad de parada de manera que desaparezca "M" de la pantalla.
Para cambiar las pistas programadas, borrar el programa y repetir todos los pasos de nuevo.

Escucha con auriculares
Conectar unos auriculares con miniclavija estéreo en la toma ∩

E

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ProLiant 4500R Rack-Mountable Spare Parts List *Continued*

	Description	Spare Part #
	Keyboard, Russia	160648-124*
	Keyboard, Czech	160648-129*
	CABLE KITS	
51	LED Cables	165680-001
52	2-Device Internal Cable with Terminator, 36"	165706-001
53	Internal Fast-Wide SCSI-2 Cable (32")	189637-004
54	Floppy Cable	165681-001
55	External SCSI Signal Cable 12'	146776-004
56	External 100-Pin to 50-Pin Cable	142159-001
57	Loop Back Cable (2 CH NIC)	142254-001*
58	Loop Back Cable (NetFlex)	142054-001*
59	2 Channel Ethernet "Y" Cable	197134-001*
	MISCELLANEOUS	
60	Maintenance and Service Guide	188494-001*
61	Administrator's Guide, English	188485-001*
	Administrator's Guide, German	188485-041*
	Administrator's Guide, French	188485-051*
	Administrator's Guide, Italian	188485-061*
	Administrator's Guide, Spanish	188485-071*
	Administrator's Guide, Japanese	188485-191*
	Administrator's Guide, Dutch	188485-331*
62	System ROMpaq	143198-001*
63	Option ROMpaq	142207-001*
64	RTC Chip with Battery	149344-001*
65	Shipping Box	187582-001*
66	120V AC Power Cord 12'	187335-001*
67	Power Cord, Denmark	184469-001*
	Power Cord, Italy	184470-001*
	Power Cord, UK	184471-001*
	Power Cord, France/Spain/German	184472-001*
68	Drive Backplane ROM	146705-001
	OPTIONS	
69	SMART Controller	181132-001*
70	Fast-SCSI-2/E Controller	142040-001*
71	Fast-Wide SCSI-2/E Controller	199634-001*
72	NetFlex Controller	142041-001*
73	NetFlex-2 Controller	142222-001*
74	NetFlex-3/E Controller	169801-001*
75	NetFlex-3 100 Base-TX Upgrade Module	169805-001*
76	NetFlex-3 100 VG-AnyLAN Upgrade Module	169803-001*
77	Token Ring Module	142042-001*
78	DualPort Ethernet Controller	142151-001*
79	2400 Baud LTE Modem	121250-001*
80	2400 Baud LTE Modem (DAA)	127831-001*
81	SpeedPaq Modem (US only)	199906-001*

* Not Shown

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Sound level measurement

Measuring points

The measuring points are defined as workplaces on the machine in question during normal operation.

Measuring method

The measuring result is an average of a measurement for 60 seconds, measured on the actual machine or on a corresponding machine. The measuring result will appear as a LpA value. The result will have an uncertainty of ± 2 dB. The LpA value is the reference workplace emission.

Measuring conditions

During the measurements, the machine will be equipped with legs or transport wheels and be located on a concrete floor.

Measuring equipment

The measurements are carried out with a noise meter approved for DIN IEC 651 Class 3.

Conversion table

Length: 1 m = 1,000 mm = 3.2808 ft = 39.3701 in

Weight: 1 kg = 1,000 g = 2.2046 lb

Area: 1 m^2 = 10.7639 ft^2 = 1.550 · 10^3 in^2

Volume: 1 m^3 = 1,000 l = 35.3145 ft^3 = 60.976 · 10^3 in^3

Temperature: °C = 0.556 · (°F - 32)
(0 °C = 32.0 °F)

Force: 1 N = 0.2248 lbf

Pressure: 1 Pa = 0.145 · 10^{-3} psi
1 bar = 14.50 psi

Tension, mechanical: 1 N/mm^2 = 10^6 Pa = 145.0 lbf/in^2

Energy, mechanical: 1 J = 947.8 · 10^{-6} Btu

Energy, electrical: 1 kWh = 3.412 · 10^3 Btu

Effect: 1 kW = 3413 Btu/h = 1.341 hp

Momentum: 1 Nm = 737.1 · 10^{-3} lb-ft

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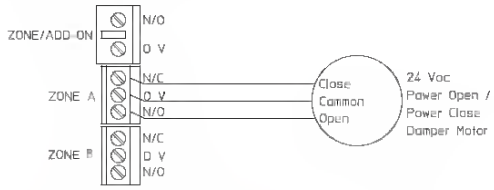
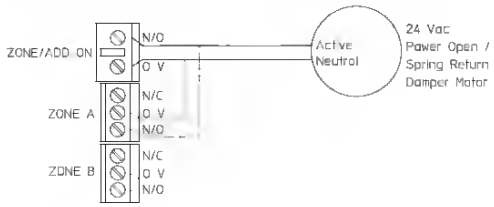
7.1 Wiring a Damper Motor to the Heater's Control Module

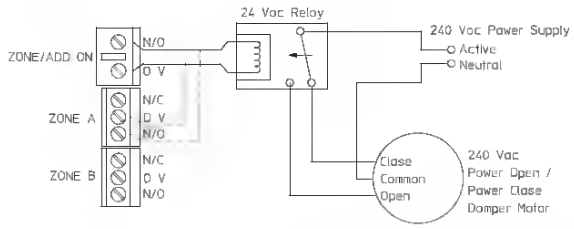
24 Voc Power Open / Power Close Domper Motor



24 Voc Power Open / Spring Return Domper Motor



240 Voc Power Open / Power Close

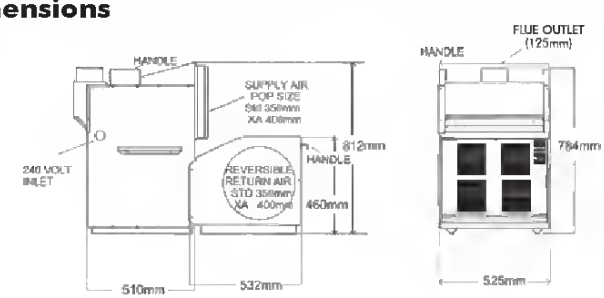


Domper Motor

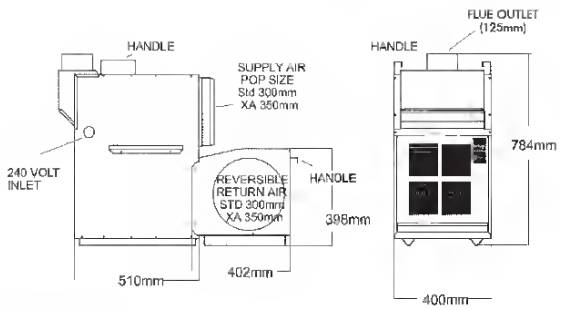
8. Classic 2P Wombat Model Guidelines

8.1 Heater Dimensions

2PW 26 and 26XA



2PW 15, 20 and 20XA



8.2 Service Clearances

Front

- A minimum clearance of 750 mm must be provided in front of the controls access panel.

Sides

- A minimum clearance of 600 mm must be provided both forward and either side of the fan motor access panels.

8.3 Internal Flueing Instructions

- The flue must be installed in accordance with AS 5601 Gas installations
- A 125mm round single or twin wall non-corrosive metal flue is required, and must be terminated with an approved 125mm round metal flue cowl.
- All flues must have a bolted flue sleeve connection to allow for repairs and/or removal of the appliance.

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10. RESOLUCIÓN DE PROBLEMAS

LA CALIDAD DE SONIDO DE LAS CINTAS ES BAJA

– *Hay polvo o suciedad en las cabezas, el cabrestante o el rodillo de presión*
• Limpie las cabezas etc.; consulte "Mantenimiento"

– *Está utilizando tipos de cinta incompatibles con este equipo (METAL o CHROME)*
• Utilice únicamente cinta NORMAL (IEC tipo I) para grabar

LA GRABACIÓN NO FUNCIONA

– *Es posible que las pestañas protectoras de la cinta estén rotas*
• Coloque un trozo de cinta adhesiva sobre el espacio de la pestaña que falta

EL MANDO A DISTANCIA NO FUNCIONA CORRECTAMENTE

– *Las baterías del mando a distancia no están colocadas correctamente*
• Coloque las baterías correctamente

– *Las baterías del mando a distancia están gastadas*
• Cambie las baterías

– *La distancia que le separa del equipo es excesiva o el ángulo no es adecuado*
• Reduzca la distancia o el ángulo

ZUMBIDO O RUIDO INTENSO

– *El equipo se encuentra demasiado cerca del televisor, del vídeo o del amplificador*
• Aumente la distancia

Español

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8 Menu: PROGRAM

With the MENU push button request the main menu from the auto mode:

Submenu PROGRAM:

NEW – QUERY – CHANGE – DELETE – END

- In the devices TR 610 top2 and TR 612 top2 only switching times can be programmed.
- In the devices TR 611 top2 and TR 622 top2 the switching commands pulse and cycle are also available. After selecting NEW, the selection menu for the switching command type SWITCHING TIME, PULSE or CYCLE is available.

9 PROGRAM menu: SWITCHING TIMES

9.1. PROGRAM menu: Programming switching times

Examples for switching times: Switch lighting on and off automatically at specific times, switch ventilation on and off, activate and deactivate pumps, open and close roll-up doors etc.

Programming example for TR 622 top2:

With channel 1 the time switch should illuminate the window in a jewellery shop from Monday to Sunday from 9:00 am to 6:30 pm.

Auto mode:

Press menu button. PROGRAM appears on the display.

Press OK button. NEW appears on the display.

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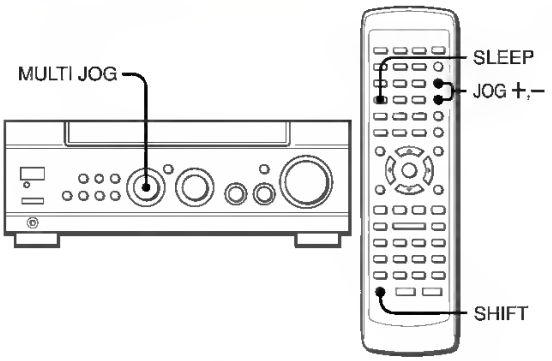
SETTING THE SLEEP TIMER



The unit can be automatically turned off at a specified time.

1 Hold down SHIFT and press SLEEP on the remote control.
"**SLEEP**" is displayed.

2 Within 6 seconds, press JOG + or — repeatedly to set the sleep timer duration.
With each press, the timer duration changes in 5-minute steps between 5 to 240 minutes. If there is no button input for 6 seconds, the current setting is entered automatically.
The unit turns off after the selected time.
• MULTI JOG on the unit is also available.

To check the remaining time until the unit turns off
Hold down SHIFT and press SLEEP on the remote control.
The remaining time is displayed for 6 seconds.

To cancel the sleep timer
Hold down SHIFT and press SLEEP on the remote control repeatedly so that "**SLEEPoFF**" is displayed.

CARE AND MAINTENANCE

Occasional care and maintenance of the unit is needed to optimize the performance of your unit.

To clean the cabinet
Use a soft dry cloth.
If the surfaces are extremely dirty, use a soft cloth lightly moistened with mild detergent solution. Do not use strong solvents, such as alcohol, benzine or thinner as these could damage the finish of the unit.

TROUBLESHOOTING GUIDE

If the unit fails to perform as described in these Operating Instructions, check the following guide.

GENERAL

There is no sound.
• Is the AC cord connected properly?
• Is there an incorrect connection? (→ pages 4-6)
• There may be a short circuit in the speaker terminals.
→ Disconnect the AC cord, then correct the speaker connections.
• Was an incorrect function selected?
• Is SPEAKER set correctly? (→ page 8)

Sound is emitted from one speaker only.
• Is BALANCE set appropriately?
• Is the other speaker disconnected?

Sound is heard at a very low volume.
• Has MUTING been pressed?

An erroneous display or a malfunction occurs.
→ Reset the unit as stated below.

TUNER SECTION

There is constant, wave-like static.
• Is the antenna connected properly? (→ page 6)
• Is the FM signal weak?
→ Connect an outdoor antenna.

The reception contains noise interference or the sound is distorted.
• Is the system picking up external noise or multipath distortion?
→ Change the orientation of the antenna.
→ Move the unit away from other electrical appliances.

To reset
If an unusual condition in the display window or malfunction occurs, reset the unit as follows:
1 Press POWER ⏻STANDBY/ON to turn off the power.
2 Press POWER ⏻STANDBY/ON while pressing ENTER. Everything stored in memory after purchase is canceled.
If the power cannot be turned off in step 1 because of a malfunction, disconnect the AC cord, and reconnect the AC cord after several seconds. Then carry out step 2.

English

#	Icon	Function	Description
14		MENU	• Press "MENU" to launch the Onscreen display (OSD) menu, back to the previous step for the OSD menu operation or exit the OSD menu. • Confirm your selection of items.
15		Four directional select keys	Use up, down, left, right buttons to select items or make adjustments to your selection.
		KEYSTONE	Adjusts the image to compensate for distortion caused by tilting the projector.
16		LOCATION	Choose the menu location on the display screen.
17		PAGE	For computer mode only. Use this button to select the next or previous page. This function is only available when connected to a computer via a USB cable.
18		Empowering key	Unique Acer functions: eOpening, eView, eTimer, ePower Management
19		COLOR	Press "**COLOR**" to adjust the color temperature of image.
20		CONTRAST	Use the "**CONTRAST**" option to control the difference between the lightest and darkest parts of the picture.
21		VIDEO	To change source to COMPOSITE VIDEO.
22		S-VIDEO	To change source to S-Video.
23		PIP	Press "**PIP**" to see two screens at the same time. The main screen projection signal uses VGA input by default while the smaller PIP display uses a secondary video source.
24(*)		WIRELESS	Press "**WIRELESS**" to display the image which is wirelessly transmitted from the PC to the projector via the "Acer eProjection Management" utility. (for wireless model)
25		BRIGHTNESS	Press "**BRIGHTNESS**" to adjust the brightness of the image.
26		RGB	Press "**RGB**" for true-color optimization.
27		COMPONENT	Press "**COMPONENT**" to change source to Component video. This connection supports YPbPr (480p/576p/720p/1080i) and YCbCr (480i/576i).
28		VGA	Press "**VGA**" to change source to the VGA connector. This connector supports analog RGB, YPbPr (480p/576p/720p/1080i), YCbCr (480i/576i) and RGBsync.
29		DVI	Press "**DVI**" to change source to DVI. This connection supports digital RGB, analog RGB, YPbPr (480p/576p/720p/1080i), YCbCr (480i/576i) and HDCP signals.
30		HDMI™	To change source to HDMI™.
31		KeyPad 0~9	Press "**0~9**" to input a password in the "Security settings".

Note: "*" Only for P7270i/P7280i series.
"#" Japan area is not supported.

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Features

Here are just a few of your computer's many features:

Performance

- Intel Pentium® III processor with integrated L2 cache memory
- Expandable system memory to a maximum of 256 MB
- Power management function
- 15-inch Large Super Thin-Film-Transistor (TFT) eXtended Graphics Array (XGA) Liquid Crystal Display (LCD)
- 3.5-inch floppy disk drive
- CD-ROM drive
- High-capacity, Enhanced-IDE hard disk
- PS/2 mouse and keyboard interface

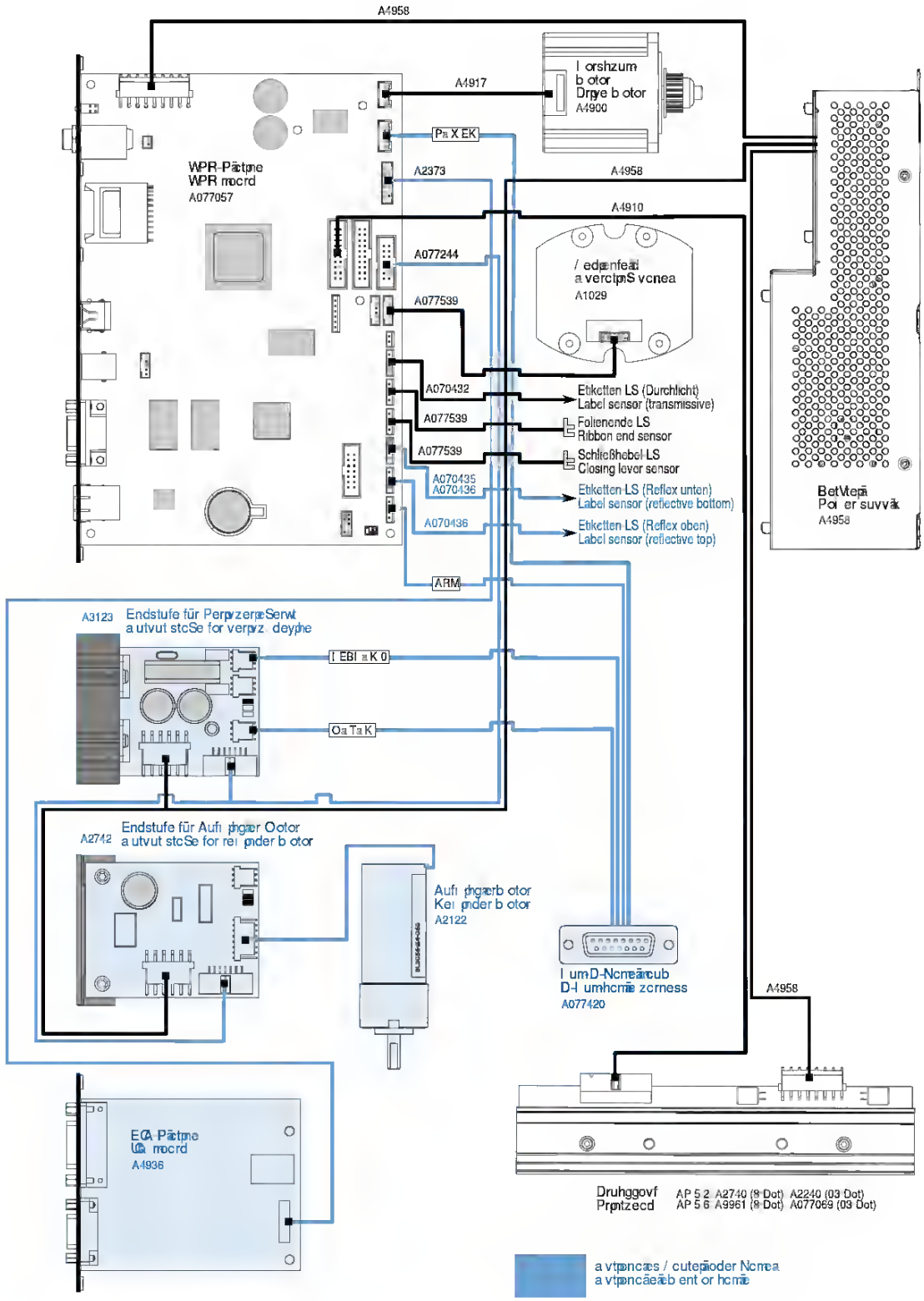
Multimedia

- 64-bit graphics acceleration with 8-MB graphics memory and Accelerated Graphics Port (AGP) support
- 10Base-T/100Base-TX network support with remote wake-up function
- 16-bit high-quality audio system via onboard PCI audio controller
- Built-in speakers
- Line-in, Line-out, Mic-in, and Game/MIDI interfaces

Connectivity

- Fast infrared (FIR) wireless communication
- Universal Serial Bus (USB) ports
- External VGA port for simultaneous LCD and Cathode Ray Tube (CRT) display support
- High-speed fax/data PCI modem (optional)

Kabel „AP5.x peripheral“ Spender / Cables AP5.x peripheral dispenser



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cloth lightly dampened with a mild detergent solution. Never use strong solvents such as thinner, benzene, or abrasive cleaners, since these will damage the cabinet. As a safety precaution, always unplug the monitor before cleaning it.

Adjusting the Picture

a. How to Adjust the Setting

1. Press the MENU-button to activate the OSD window.
2. Press <or >to select the desired function.
3. Press the MENU-button to select the function that you want to adjust.
4. Press < or >to change the settings of the current function.
5. To exit and save, select the exit function. If you want to adjust any other function, repeat steps 2-4.

Analog Only Model

I. Analog-Only Model

Dual-Input model (Optional)

II. Dual-Input Model, Analog Signal Input

III. Dual-Input Model, Digital Signal Input

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Adjusting sound quality

To return to the previous screen

Press .

To cancel the adjustment operation

Press ■

Notes

- When you select CUSTOM sound, sound may be distorted depending on your sound settings when you turn up the volume. If this happens, turn the volume down.
- You may feel a difference in sound volume between the CUSTOM sound setting and other sound settings. Adjust the volume for your preference.

The E•A•S•S GP function

The E•A•S•S (Electronic Anti-Shock System) GP function has been developed to provide excellent protection against sound skipping during many active uses.

1 **While play is stopped, press and hold DSPL/MENU until the MENU screen appears. Press ∧ or ∨ to select "OPTION," then press ►tt/ENT.**

2 **Press ∧ or ∨ to select "EASS GP," then press ►tt/ENT to enter the selection.**

3 **Press ∧ or ∨ to select "EASS GP 1" or "EASS GP 2," then press ►tt/ENT to enter the selection.**

If you select "EASS GP 2," the E•A•S•S GP function will be enhanced compared to "EASS GP 1." To enjoy high quality CD sound, select "EASS GP 1."

Note

Sound may skip

- if the CD player receives stronger continuous shock than expected,
- if a dirty or scratched CD is played, or
- when using poor-quality CD-Rs/RWs or if there is a problem with the original recording device or application software

Protecting your hearing (AVLS)

The AVLS (Automatic Volume Limiter System) function keeps the maximum volume down to protect your hearing.

1 **Press and hold DSPL/MENU until the MENU screen appears. Press ∧ or ∨ to select "OPTION," then press ►tt/ENT.**

2 **Press ∧ or ∨ to select "AVLS," then press ►tt/ENT to enter the selection.**

3 **Press ∧ or ∨ to select "ON," then press ►tt/ENT to enter the selection.**

To cancel the AVLS function

Perform steps 1 - 3, changing the AVLS setting to "OFF."

Start the wash programme

☞ **1.** Check that the dishes and cutlery are loaded into the dishwasher in such a manner that the spray arms are free to rotate.

2. Open the tap fully.

3. Shut the door.

4. Press the On/Off button ⏻. The On/Off button ⏻ indicator illuminates.

5. Press the programme button for the desired programme (see "Programme Table"). The programme indicator illuminates. The selected programme begins after around 6 seconds. The time remaining until the end of the programme is displayed on the multi-display, the time calculated is dependent on the load in the dish racks.
With automatic programme adjustment this residual time count can be stopped or corrected if necessary (load quantity, degree of dirtiness, etc.) using the dishwasher control.

ⓘ If fault messages are displayed on the multi-display after the start of the programme, please read the "What to do, if..." section.

Changing/Interrupting/Cancelling the Wash Programme

ⓘ Only change or interrupt a wash programme in progress if it is absolutely necessary to do so. When the appliance is closed again, the air that has entered is heated and expands significantly. As result water may penetrate into the base of the appliance and trigger the leak prevention system.

Changing the wash programme

ⓘ If you want to change the wash programme within 6 seconds of making a programme selection, briefly press the button for the new wash program.

If you want to change the wash programme at a later point in time, use the following procedure:

☞ **1.** Press the button for the new wash programme and hold it pressed. The indicators for both programmes now flash.

2. After a few seconds only the indicator for the new programme flashes. Release the programme button, the new programme is now running.

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20 Blocking or Clearing All Channels at the Same Time

After blocking specific channels there may come a time when you want to block or clear all the channels at the same time.
Once you've entered your access code and the AutoLock™ features are displayed on the screen:

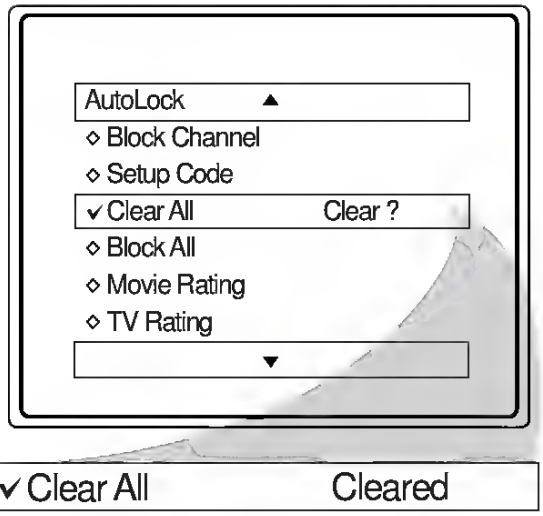
1 **Press the CURSOR UP ∧ or DOWN ∨ buttons** to select either CLEAR ALL or BLOCK ALL.

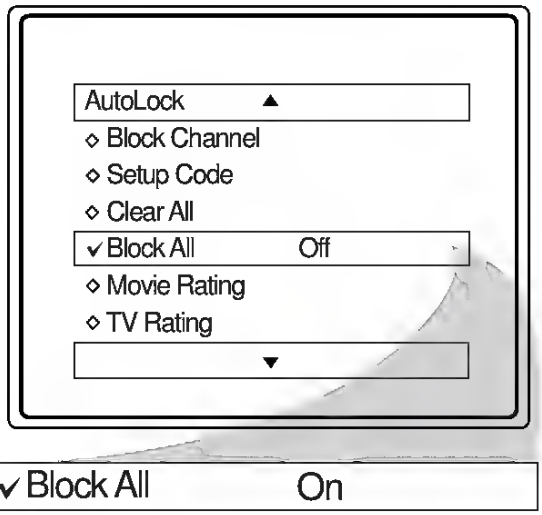
2 **If CLEAR ALL is selected, press the CURSOR RIGHT > button** to clear all blocked channels. All channels will be viewable.

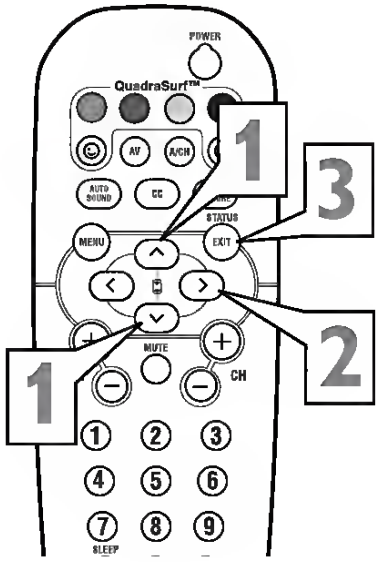
If BLOCK ALL is selected, press the CURSOR RIGHT > button to turn the control ON or OFF. When ON is selected, ALL available channels will be blocked from viewing.

3 **When finished, press the STATUS/EXIT button** to remove the menu from the screen.

NOTE: If you ever forget your code, the 0, 7, 1, 1 code is the factory default and can be used to enter and create a new access code.







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Label	Icon	Color	Component
9			Handset/telephone line ports (optional)
10			Expansion slot
11		Burgundy	Parallel/Printer port

Notes on the roasting tables

Information is given in the table on suitable oven functions, temperature settings, cooking times and shelf positions for various types of meat. The cooking times are only for guidance.

- We recommend that only meat and fish **with a minimum weight of 1kg** should be roasted or baked in the oven.
- In general, conventional is particularly suitable for cooking very lean meat such as fish or game. For all other types of meat (particularly poultry) we recommend the rothitherm function.
- The cooking time required is dependent on the type and quality of the meat.
- To stop meat juices or fat burning onto dishes or the oven, we recommend adding a little liquid to the roasting dish
- Turn the roast after approx. 2/3 of the cooking time.

Switch off the oven 10-15 minutes before the end of the cooking time to make use of the residual heat.

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Appendix A–Compaq Web Resources

Table 4 lists the Internet links noted throughout this document as well as additional links that you might find helpful when investigating Compaq Data Center Solutions.

Table 4. Compaq resources

Item	Web Location
Compaq Data Center Solutions website	http //www compaq com/datacenter
Kernel-Touching Applications Explanation and Process (see the kernel-touching components link)	http //www compaq com/solutions/datacenter/application html - kernel
Compaq Data Center Software Download Center	http //www compaq com/support/files/datacenter/us/index html
Windows 2000 on Compaq	http //www compaq com/partners/Microsoft/Windows2000/index html
*Windows 2000 Advant*age Online Magazine	http //www windows2000advantage com
Microsoft Frontline Partnership	http //www compaq com/partners/Microsoft
White Papers and Other Technical Documentation (complete listing)	http //www compaq com/support/techpubs/whitepapers/index html

Appendix B-Microsoft Web Resources

Throughout this paper, we have discussed Microsoft certification procedures and requirements. After you visit the Compaq Web resources, refer to the Microsoft Windows 2000 Datacenter Server website for additional tools and information critical to your evaluation process. Table 5 lists Microsoft resources on the Web.

Table 5. Microsoft resources

Item	Web Location
Windows 2000 Datacenter Server	http //www microsoft com/windows2000/datacenter/default asp
Windows 2000 Datacenter Server Help documentation	http //windows microsoft com/windows2000/en/datacenter/help/default asp
Windows 2000 Datacenter Server Certified Applications	http //www microsoft com/windows2000/datacenter/evaluation/features/software/certified asp
Windows 2000 Datacenter Server Certified Logo	http //msdn Microsoft com/certification
Windows 2000 Datacenter Server Hardware and Software Compatibility Testing	http //www microsoft com/windows2000/server/howtobuy/upgrading/compat/default asp
Microsoft Hardware Compatibility List (HCL)	http //www microsoft com/hcl/default asp

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How to use the Closed Captioning Control

Closed Captioning (CC) allows you to read the voice content of television programs on the TV screen. Designed to help the hearing impaired, this feature uses on-screen "text boxes" to show dialogue and conversations while the TV program is in progress.

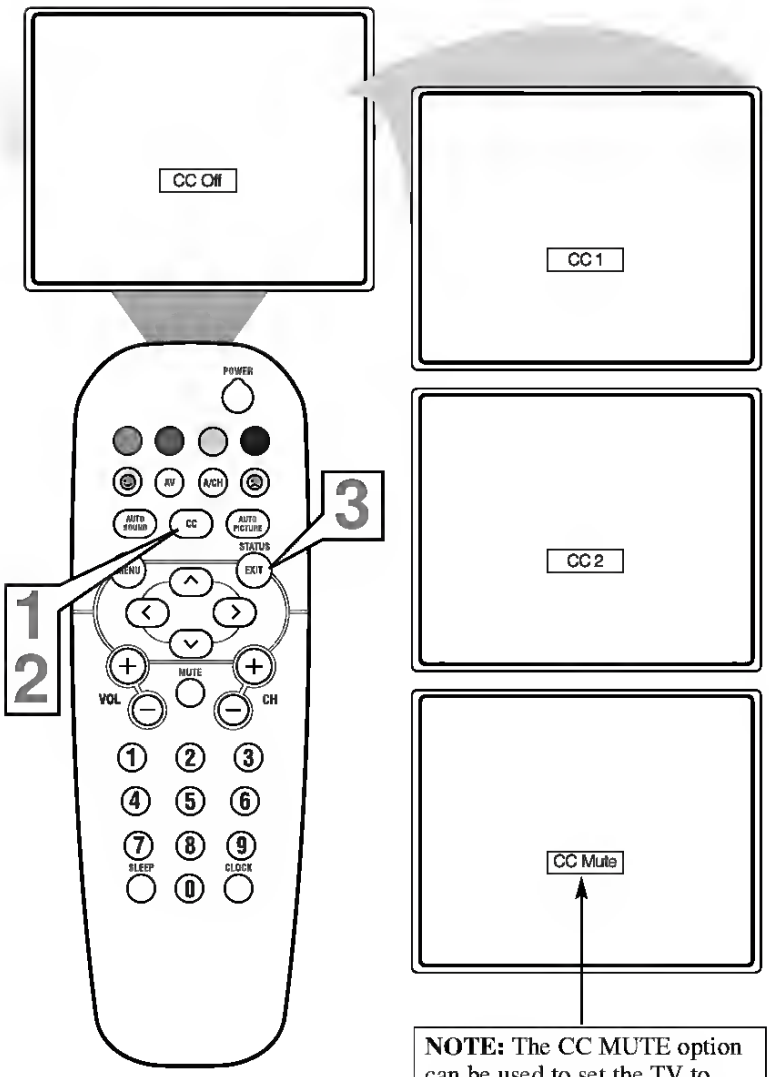
1 **Press the CC button** on the remote to display the current Closed Caption setting.

2 **Press the CC button repeatedly** to choose from the four Closed Caption options (CC Off, CC 1, CC 2, CC Mute). Dialogue (and descriptions) for the action on the captioned TV program will appear on-screen if the tuned program is broadcasting CC information.

3 **When finished, press the STATUS /EXIT button** to remove the menu from the TV's screen or let the option time out and disappear from the TV screen.

Helpful Hint

Not all TV programs and product commercials are made with Closed Caption (CC) information included. Neither are all Closed Caption modes (CC1, or CC2) necessarily being used during the transmission of a closed caption program. Refer to your area's TV program listings for the stations and times of Closed Caption shows.



NOTE: The CC MUTE option can be used to set the TV to turn the Closed Caption mode "ON" whenever the MUTE button on the remote is pressed. This activates the CC1 option.

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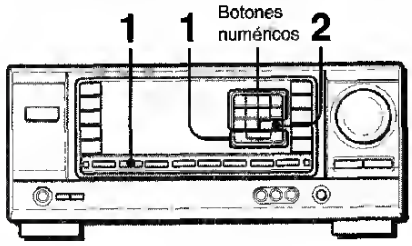
MEMORIZACION DE EMISORAS



La unidad podrá almacenar un total de 32 emisoras. Cuando almacene una emisora, se le asignara un número de memorización. Utilice el número de memorización para sintonizar directamente la emisora almacenada.

1 Presione el botón TUNER para seleccionar la banda, y presione el botón UP▲ o DOWN▼ para seleccionar la emiaora. Usted también podrá utilizar la sintonía directa.

2 Presione el botón SET para almacenar le emisora.
A las emisoras se les asignará un numero de memorización en orden consecutivo comenzando por 1 para cada banda

3 Repita los pasos 1 y 2.
La emisora siguiente no se almacenará si ya ha almacenado un total de 32 emisoras para todas las bandas.

NOTA

Cuando cambie el intervalo de sintonía de AM, se borrarán todas las emisoras memorizadas. En este caso tendrá que volver a memorizar las emisoras.

SINTONIA DE EMISORAS POR SU NUMERO DE MEMORIZACION

1 Presione el botón TUNER pare seleccionar una banda.

2 Presione los botones numéricos pare introducir el número de memorización.
Ejemplo:
Para introducir el número de memorizaclón 25, presione 2 y 5.
Para introducir el número de memorización 7, presione 0 y 7.

Para borrar una emisora memorizada
Introduzca el número de memonzación de la emisora que desee borrar. Después presione el botón SET, y antes de cuatro segundos vuelva a presionar el botón SET.
Los números de memorización de todas las demás emisoras de la banda de número superior se reducirán una unidad.

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GRABACION BASICA

Preparación
- Bobine la cinta hasta el punto donde vaya a empezar la grabación.
- Sólo es posible grabar cintas normales (tipo I).

1 Inserte la cinta que vaya a grabar en la platina.
Inserte la cinta con el lado que se va a grabar hacia afuera de la unidad y el lado expuesto hacia abajo.

2 Pulse el botón TAPE/REV MODE para seleccionar el modo de inversión.
Para grabar una cara solamente, encienda ⇄.
Para grabar en ambas caras, encienda ⇉ o ⇄.

3 Pulse uno de los botones de función y prepare la fuente de sonido de grabación.
Para grabar de un disco compacto, pulse el botón CD e introduzca el disco compacto.
Para **grabar una radiodifusión**, pulse el botón TUNER y sintonice la emisora.
Para grabar de una fuente de sonido conectada, pulse el botón AUX/VIDEO y active la reproducción.

4 Pulse el botón ● REC para iniciar la grabación.
Cuando la función seleccionada sea CD, la reproducción y la grabación empezarán simultáneamente.
Si utiliza el control remoto, pulse el botón ● REC en primer lugar y, a continuación, pulse el botón ◀▶ en un intervalo de 2 segundos.
REC se visualizarán durante la grabación.

Para detener la grabación, pulse el botón ■.
Para hacer una pausa en la grabación, pulse el botón **II**. (Puede aplicarse cuando la fuente de sonido sea TUNER o AUX/VIDEO.) Para reanudar la grabación, pulse de nuevo el botón.
Para reducir el ruido de interferencias de una emisión MW/LW (para el modelo K)
Pulse el botón BAND mientras pulsa el botón SHIFT en el mando a distancia para reducir el ruido de interferencias durante la grabación de una emisión MW/LW. Cada vez que pulse los botones, la luz de puntos ① se enciende y apaga en el visor. → A

NOTE
No es posible grabar cuando el botón TAPE activado.

ENREGISTREMENT DE BASE

Préparation
- Bobiner la cassette jusqu'à l'endroit où on veut démarrer l'enregistrement.
- Vous ne pouvez enregistrer que sur des cassettes normales (type I).

1 Insérer la cassette à enregistrer dans la platine.
Introduire la cassette avec la côté à enregistrer en premier face à l'extérieur et la partie exposée de la bande vers le bas.

2 Appuyer sur la touche TAPE/REV MODE pour sélectionner le mode d'inversion.
Pour enregistrer sur une face seulement, allumer ⇄.
Pour enregistrer sur les deux faces, allumer ⇉ ou ⇄.

3 Appuyer sur une des touches de fonction et préparer la source à enregistrer.
Pour enregistrer à partir d'un disque compact, appuyer sur la touche CD et mettre le disque en place.
Pour enregistrer une émission de radio, appuyer sur la touche TUNER et accorder sur une station.
Pour enregistrer à partir de la source connectée, appuyer sur la touche AUX/VIDEO et mettre la source en marche.

4 Appuyer sur la touche ● REC pour démarrer l'enregistrement.
Quand la fonction sélectionnée est CD, la lecture et l'enregistrement démarrent simultanément.
Avec la télécommande, appuyez d'abord sur la touche ● REC, puis sur ◀▶ dans les deux secondes qui suivent.
REC sont affiches pendant la enregistrement.

Pour arrêtar l'anregistremant, appuyer sur la touche ■.
Pour mettre l'enregistrement en pause, appuyer sur la touche **II**. (Applicable quand la source est TUNER ou AUX/VIDEO.) Pour reprendre l'enregistrement, appuyer de nouveau sur cette touche.
Pour réduire les interférences en PO/GO (modèle K)
Appuyez sur BAND tout en appuyant sur la touche SHIFT de la télécommande afin de réduire les interférences lors d'un enregistrement en PO/GO. Chaque fois que vous appuyez sur la touche, le témoin ① s'allume et s'éteint dans l'afficheur. → A

REMARQUE
L'enregistrement est impossible si vous avez sélectionné la touche TAPE.

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What to do, if ...

Try to rectify minor faults on the dishwasher with the aid of the instructions given here. If you call an engineer to resolve a of fault listed here, or to repair a fault caused by incorrect use or installation, a charge will be made even if the appliance is in guarantee.

...Error messages are displayed.

If any of the indicators in the control panel, as listed in the table below, are flashing or are illuminated, you can probably rectify the fault yourself.

Malfunction	Possible cause	Remedy
The programme indicator for the selected wash programme is flashing; the end wash programme indicator is flashing in **the following sequence: 1** short flash with approx. 3 seconds pause in between: There is no water entering the dishwasher.	The tap is blocked or furred with lime-scale	Clean the tap
	The tap is turned off.	Turn the tap on.
	The filter (where present) in the threaded hose fitting on the tap is blocked.	Clean the filter in the threaded hose fitting.
	Filters in the base of the washing compartment are blocked.	Press the button for the wash programme that had already started; then cancel the wash programme by pressing RESET (see chapter: Starting a wash programme); Clean out the filters. (See chapter: Cleaning the filters)
	The water inlet hose has not been correctly laid.	Check hose installation.

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Appendix B: TPC-D Query Definitions

Query 1 - Pricing Summary Report

TPC-D Business Question: Provides a summary pricing report for all Lineitems shipped as of a given date, a date always within 180 days of the greatest shipdate contained in the database.

Functionality: Query 1 performs multiple aggregations and summaries by reading and processing over 95% of the rows of the database's largest table. Only this single table is scanned with a very low number of rows being returned.

Query 2 - Minimum Cost Supplier

TPC-D Business Question: Find, in a given Region, for each Part of a certain type and size, the Supplier who can supply it at minimum cost. If several suppliers in that region offer the desired part type and size at the same (minimum) cost, the query lists the Parts from Suppliers with the 100 highest account balances.

Functionality: Query 2 is a correlated subquery based on a 5-table join in both outer query and inner query. Close to 5% of the Supplier rows result from the selection criteria and query processing, but only the 100 Suppliers with the highest account balances are returned.

Query 3 - Shipping Priority

TPC-D Business Question: Retrieves the shipping priority and potential revenue of Orders having the largest revenue among those that had not been shipped as of a given date. Orders are listed in decreasing order of revenue. If more than 10 unshipped Orders exist, only the 10 Orders with the largest revenue are listed.

Functionality: Query 3 performs a 3-table join on three of the larger tables in the database. Anywhere from 1/5 to _ of the rows of each of the 3 tables participate in the joins, with a final aggregation that produces a very high number of rows, in the millions for most volume points. Only the 10 Orders with the highest revenue are returned.

Query 4 - Order Priority Checking

TPC-D Business Question: Counts the number of Orders ordered in a given quarter of a given year in which at least one Lineitem was received by the Customer later than its committed date. The query lists the count of such Orders for each order priority sorted in ascending priority order.

Functionality: Query 4 is a correlated subquery in which about 1/28 of the Lineitem rows are selected for evaluation based on order date. An aggregation that produces a count by priority produces 5 rows in the answer set.

Query 5 - Local Supplier Volume

TPC-D Business Question: Lists for each Nation in a Region the revenue volume that resulted from Lineitem transactions in which the Customer ordering parts and the Supplier filling them were both within that Nation. The query considers only Parts ordered in a given year, displaying the Nations and revenue volume in descending order by revenue.

Functionality: This is a 5-table join of large and small tables, where the data aggregated is reduced down to 1/5 of the Customers and Suppliers (representing one Region out of five) and 1/7 of the Lineitems (one

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Troubleshooting 4-2

General Information 4-2

Power On Issues 4-3

No Display Issues 4-4

LCD Picture Failure 4-5

Touch Screen Failure 4-6

Internal Speaker Failure 4-7

Internal Microphone Failure 4-8

Extend Earphone Failure 4-9

USB Test Failure 4-10

Front Camera Failure 4-11

WiFi & BT Function Test Failure 4-12

GPS Function Test Failure 4-13

Other Functions Failure 4-14

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Tint	Adjusts the color balance of red and green. • Press ◀ to increase the amount of green in the image. • Press ▶ to increase the amount of red in the image.
Color Temperature	Mode Use this function to choose CT1, CT2, CT3, User mode.
	R Gain Adjusts the red gain for color temperature optimization.
	G Gain Adjusts the green gain for color temperature optimization.
	B Gain Adjusts the blue gain for color temperature optimization.
Gamma	Effects the representation of dark scenery. With greater gamma value, dark scenery looks brighter.
Advanced	Ind. Color Management Adjusts the red, green, blue, cyan, yellow and magenta colors.
	Ind. Hue Adjusts the color balance of red and green.
	Ind. Saturation Adjusts the selected color to be less or more saturated color.
	Ind. Gain Adjusts the selected color's contrast.
	Brilliant Color Produces an expanded on-screen color spectrum that delivers enhanced color saturation for bright, true-to-life images.
	White Peaking Increases the brightness of whites that are near 100%. (video sources only)
	Film Mode Sets the image optimized to 24-frame True Film mode.
	Noise Reduction Adjusts signal noise reduction."0" means the noise reduction is off, ">0" increase noise reduction
	Black Extension This ensures optimum black level for each analog source.

Note 1: "Saturation" and "Tint" functions are not supported under computer or HDMI mode.

Note 2: Functions vary depending on model definition.

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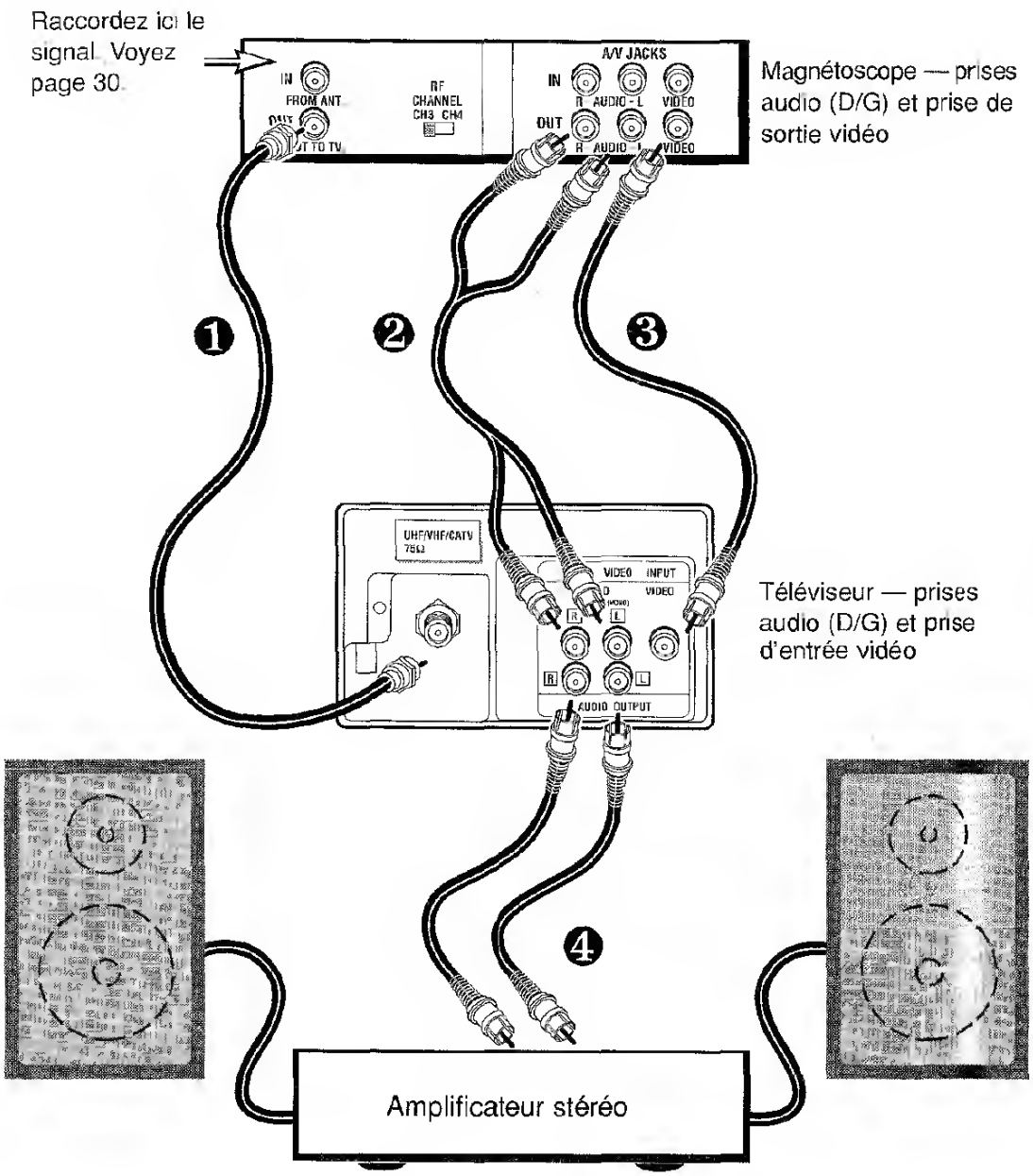
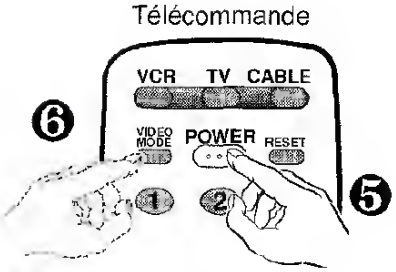
UTILISATION DES PRISES D'ENTRÉE AUDIO ET VIDÉO (A/V)

Mettez hors circuit le téléviseur ou tout autre appareil externe avant de raccorder les câbles.





REMARQUE : Magnétoscope mono (une seule prise audio)

Raccordez la sortie audio sur le magnétoscope (❷) à la prise d'entrée audio de gauche sur le télécouleur.

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Using the network mailbox

The network mailbox is the answering machine in your provider's telephone network. More information is available from your provider.

You cannot use the network mailbox unless you have **requested** it from your provider.

Entering the network mailbox number

In order to use the network mailbox quickly and easily via the network mailbox list and to use fast access, you will need to enter the number in your phone.

Menu ▸ Voice Mail ▸ OK ▸ Netw. Mailbox ▸ OK

Enter the network mailbox number and press OK.

Accepting a new message from the network mailbox

When a message is recorded, you receive a call from the network mailbox. If you have requested Calling Line Identification, the network mailbox number is displayed. If you accept the call, the new messages are played back. If you do not accept the call, the network mailbox number is saved in the **calls list** (→ page 33).

Please note

Enter the network mailbox phone number into your directory along with the designation "Network mailbox"; the display and the calls list will then show this designation.

Playing back messages

There are three ways of calling the network mailbox.

- Call the network mailbox via the **Voice Mail** menu:

  Menu ▸ Voice Mail ▸ OK ▸ Play Messages ▸ OK

  Dependent on base:

  ▸ Net Mailbox ▸ OK

- Call the network mailbox via the network mailbox list:

  → ▸ Netw.MBX

  The list is displayed as follows:

  Netw.MBX 00+**

  00: The number of new messages is only displayed correctly if your network provider transmits this information.

  **: The number of old messages is not available.

  OK Press the display key to call the network mailbox.

- Fast access to the network mailbox:

  To access the network mailbox, simply press and hold the 1- key – you do not have to select it via the menu.

Remote Use with Accessory Devices - Direct Method

Your remote control is set to work your TV and many infrared remote (IR) control VCRs, Cable Boxes, Satellite Systems, DBS, DVD, etc. However, an easy onetime step may be necessary before the remote will work your VCR.

Try this initial Direct Access Method to see if going on to the following section is necessary.

BEGIN

1. **Place the TV/VCR/ACC Mode Switch** in the proper position.
2. **Point the remote control** at the device and press the POWER button.

Does the remote turn the device ON?

If YES, stop and try other function buttons on the remote. If they also work the device, then the remote is ready and no further steps are needed.

If NO, continue...

STOP

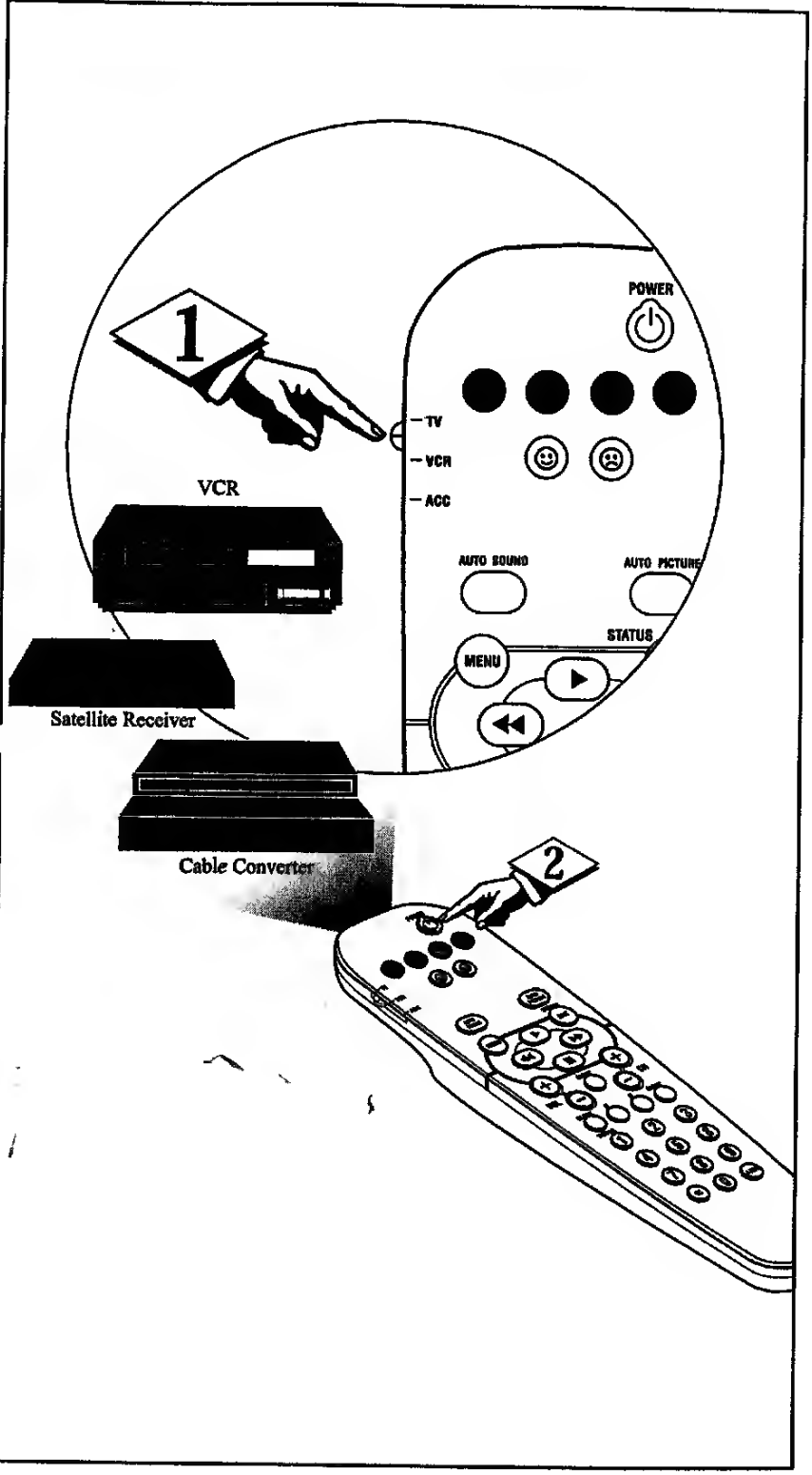
1. First look up a **THREE-DIGIT remote control number** for your brand of Device before going through the simple steps on the following page.

Find your Three-Digit Code on pages 35-37.

Smart Help

Remember, if more than one number is listed, you may have to try more than the first Three-Digit code given in order to locate your Device's remote code.

NOTE: Setting up the remote is for use with external accessory devices and not for use with other television brands.



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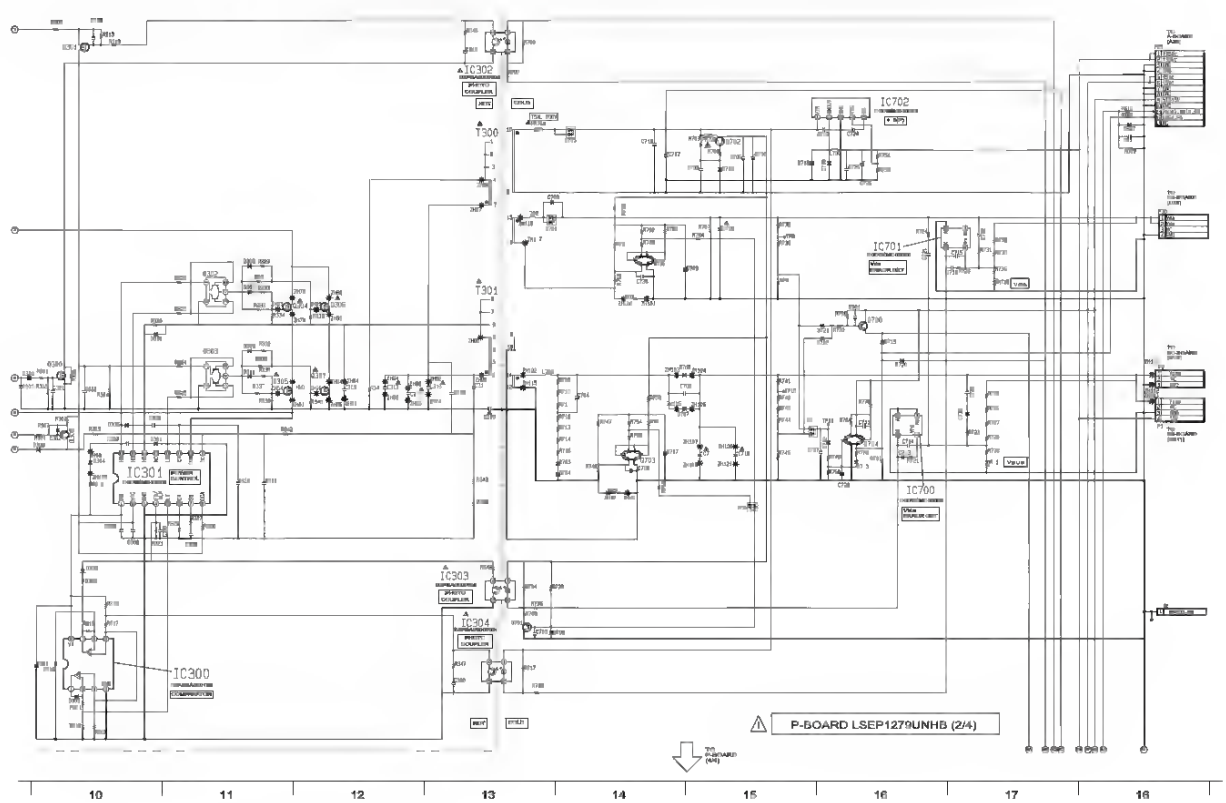
11.3. P-Board (2/4) Schematic Diagram



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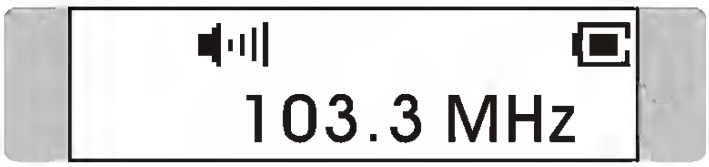
4. If you do not read the message of FM RADIO on the Display, please keep pushing the Menu button the to right until FM RADIO appears.

Select FM Station

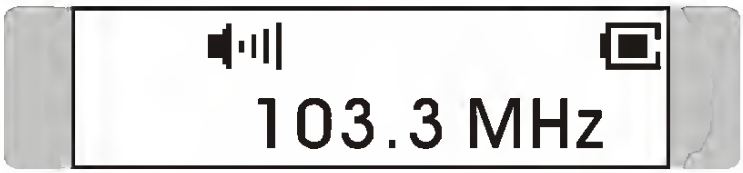
1. Once the FM Radio Mode is selected, use the Menu button by pushing it to the right or to the left to select the desired station.
2. While you are searching for the desired station, you will read the frequency appearing on the Display.



Storing a Favorite Station

With this favorite station memory function, you will be able to store 10 favorite stations named from P01 to P10 into the memory of this MP3/Storage Drive.

1. To store a favorite Station, select a desired frequency first.



2. Press the Menu button once, and you should read the massage of SAVE TO P01 appears on the Display.

3. Switch the Menu button to the right or to the left to select a desired favorite station number.

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GUARANTEE CONDITIONS

South Africa

Guarantee Conditions

1. AEG guarantees the equipment against defective material or faulty manufacture, **provided it is** used for domestic purposes only, for a period twelve (12) months from the date of purchase by the original purchaser. **If used for commercial purposes, the warrantly period will be limited to six (6) months.**

2. Where the appliance is used or installed more than Fifty **(50)** kilometres from the nearest AEG Service Agent shall be **for** the account of the purchaser.

3. The risk in regard to appliances to be repaired shall at all times remain with the purchaser.

4. This guarantee is given on condition that only genuine AEG parts and accessories are at all times used in the appliance.

5. AEG shall not be responsible for damage of any kind resulting from electricity fluctuations, faults in the building wiring, faulty **installations**, improper use of controls or failure to use the appliance in accordance with the operating instructions **and/or** general misure **and/or** abuse.

6. Any attempt by an unauthorised person to repair or tamper with the equipment shall render this guarantee null and void.

7. This guarantee does not apply to light bulbs, loose glass, glass oven doors and enamelled surfaces or to dust bags, filters **and other parts subject to wear and tear.**

8. AEG shall not be responsible in terms of this guarantee for the replacement or repair of any part of the equipment which may have been damaged in transit.

9. Repairs carried out under guarantee do not extend the guarantee period for the appliance. Parts removed during guarantee repairs become the property of AEG.

10. This guarantee shall be available only to an original purchaser of AEG **domesic** appliances from an authorised AEG Dealer of **Distributor** in and where the appliance has been retained for use in the Republic of South Africa, Namibia, Botswana, Swaziland, Lesotho and **Zimbabwe.**

11. Failure to produce documentary proof of the date or original acquisition by the original purchaser will result in **normal charges** being levied for **the** work **carried out** and **the** parts supplied.

12. The liability of AEG under this guarantee is limited to the replacement and/or repair of the defective parts within the guarantee period and does not extend to be installation or removal of the appliance. Furthermore, AEG does not accept responsibility or **liability** to compensate for any consequential loss or damage of any kind caused by or due to the failure of operation or malfunction of any equipment to which this guarantee applies.

AEG Domestic Appliances. A division of Electrolux S.A. (Pty) Ltd.

55 Twelfth Road, Kew, Johannesburg 2000

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MUST have DHCP assignment capability if you choose to use this option. If you are unsure do NOT use DHCP. To assign an IP address, uncheck the box **Assign IP automatically with DHCP** and fill in the **IP Address**, **Subnet Mask** and **Gateway**. You do not have to fill out the **Port**.

- **Location Name -** the unique name you assign to this Intercom
- **Assign this PC address as client's server** - This is automatically unchecked so you can enter the IP address and Port number of the Server-Peer
- **List when Offline -** This option does not apply to Direct Mode
- **Apply -** This option will save your settings to the selected intercom. After applying changes to an intercom, the unit will be reset and will be unavailable for 10-15 seconds

Search - You can re-search for Intercoms to verify all of your changes. Please note, that if you **Apply** changes to an intercom, the unit will be unavailable for 10 -15 seconds. If an Intercom does not appear in the list, try searching a second time.

The configured intercoms will look something like this.

Location Name	Icom ID	IP Address	Details
Main Exit	030C3A	192.168.254.128	Client DHCP
Main Office	030BED	192.168.254.15	Server

If you need to change other options on the intercoms, make sure that you check menu **View → Advanced**. Refer to Advanced Configuration for details.

Exit - This option closes the Intercom Configuration Tool screen.

The **Server-Peer** will play a short beep and the Active and Link lights will turn solid on both intercoms indicating that they have made a connection.

Updating Firmware

Updating firmware should only be done under the direction of Aiphone Technical Support. Improperly flashing Intercoms can render the units inoperable.

Intercoms must have minimum firmware levels of 1.9.5.66.1-xx.x-3.68.4 to use the following features:

- Console Forwarding
- UDP Broadcast
- Fail Forward IP addresses
- Door Relay Activation time
- Location Name Stored in Intercom

Intercoms shipped with TalkMaster™ include the most current firmware. To verify the firmware level, right click on an intercom in the main TalkMaster screen and view the OS version. In the following example, v1.9.5.66.8 is the ICOM version and 3.68.4 is the NIC version.

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CANADIAN DEPARTMENT OF COMMUNICATIONS (DOC) STATEMENT

NOTICE

The Canadian Department of Communications label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational and safety requirements. The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. In some cases, the company's inside wiring associated with a single line individual service may be extended by means of certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

Caution: User should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

The Load Number (LN) assigned to each terminal device denotes the percentage of the total load to be connected to a telephone loop which is used by the device, to prevent overloading. The termination on a loop may consist of any combination of devices subject only to the requirement that the total of the Load Numbers of all the devices does not exceed 100.

AVIS

L'etiquette du ministère des Communications du Canada identifie le matériel homologue. Cette etiquette certifie que le materiel est conforme a certaines normes de protection, d'exploitation et de securite des reseaux de telecommunications. Le ministere n'assure toutefois pas que le materiel fonctionnera a la satisfaction de l'utilisateur.

Avant d'installer ce materiel, l'utilisateur doit s'assurer qu'il est permis de le raccorder aux installations de l'entreprise locale de telecommunications. Le materiel doit également être installe en suivant une méthode acceptee de raccordement. Dans certains cas, les fils interieurs de l'entreprise utilises pour un service individuel a la ligne unique peuvent etre prolonges au moyen d'un dispositif homologue de raccordement (cordon prolongateur téléphonique interne). L'abonne ne doit pas oublier qu'il est possible que la conformite aux conditions enoncees ci-dessus n'empeche pas la degradation du service dans certaines situations. Actuellement, les entreprises de telecommunications ne permettent pas que l'on raccorde leur materiel aux prises d'abonnes, sauf dans les cas precis prevus par les tarifs particuliers de ces entreprises.

Les réparations du materiel homologue doivent etre effectuees pas un centre d'entretien canadien autorise designe par le fournisseur. La compagnie de telecommunications peut demander a l'utilisateur de débrancher un appareil a la suite de reparations ou de modifications effectuees par l'utilisateur ou a cause de mauvais fonctionnement.

Pour sa propre protection, l'utilisateur doit s'assurer que tous les fils de mise en terre de la source d'energie electrique, des lignes telephoniques de reseau de conduites d'eau, s'il y en a, soient raccordes ensemble. Cette precaution est particulierement importante dans les regions rurales.

Avertissement: L'utilisateur ne doit pas tenter de faire ces raccordements lui-meme; il doit avoir recours a un service d'inspection des installations électriques, ou a un electricien, selon le cas.

L'Indice de charge (IC) assigne a chaque dispositif terminal pour eviter toute surcharge indique le pourcentage de la charge totale qui peut être raccordé a un circuit téléphonique terme utilise par ce dispositif. La terminaison du circuit terme peut être constituee de n'importe quelle combinaison de dispositifs, pourvu que la somme des indices de charge de l'ensemble des dispositifs ne depasse pas 100.

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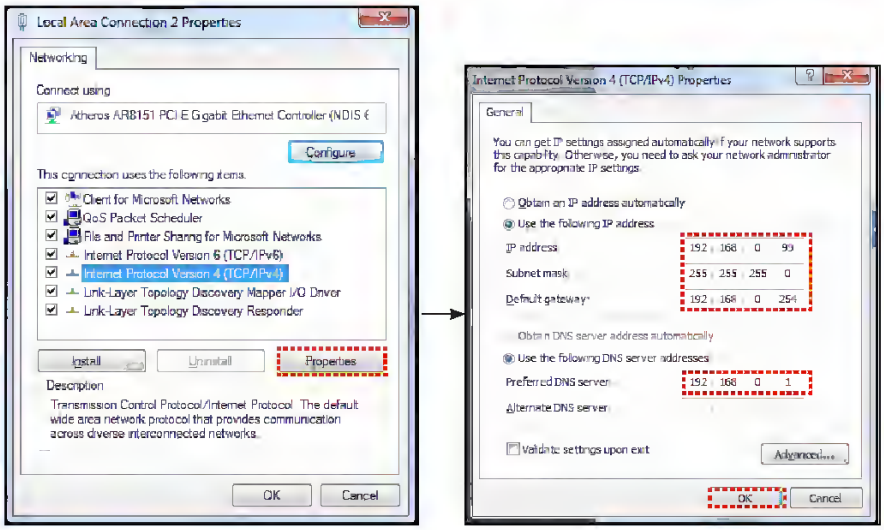
USING THE PROJECTOR

Making a direct connection from your computer to the projector*

1. Turn "Off" the DHCP option on the projector
2. Configure the IP address, Subnet Mask, Gateway, and DNS on projector ("Network > LAN")
3. Open ***Network and Sharing Center*** page on your PC, and assign the identical network parameters to your PC as set on projector. Click "OK" to save the parameters.


Local Area Connection 2 Properties
Networking
Connect using:
Atheros AR8151 PCI-E Gigabit Ethernet Controller (NDIS 6
Configure
This connection uses the following items:
Client for Microsoft Networks
QoS Packet Scheduler
File and Printer Sharing for Microsoft Networks
Internet Protocol Version 6 (TCP/IPv6)
Internet Protocol Version 4 (TCP/IPv4)
Link-Layer Topology Discovery Mapper I/O Driver
Link-Layer Topology Discovery Responder
Install
Uninstall
Properties
Description
Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication across diverse interconnected networks.
OK
Cancel
Internet Protocol Version 4 (TCP/IPv4) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address:
192 . 168 . 0 . 99
Subnet mask:
255 . 255 . 255 . 0
Default gateway:
192 . 168 . 0 . 254
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server:
192 . 168 . 0 . 1
Alternate DNS server:
Validate settings upon exit
Advanced...
OK
Cancel

4. Open the web browser on your PC and type in to the URL field the IP address, assigned in step 3. Then press "Enter" key.

Reset

Reset all values for LAN parameters.

Network control menu

HTTP

Use this function to select the network function (port 80).

RegSave.exe [-s]:

Saves registry settings. If you use "RegSave.exe –s", no message box is displayed whether you are successful or fail.

Reboot.exe:

Saves the registry settings and reboots the panel computer.

Screen.exe [on/off]:

Turns the display on/off. Use "Screen.exe on" to turn on and "Screen.exe off" to turn off the display.

Iesample.exe [-n] [-f] [ip address/ folder name]:

Open the Internet Explorer. Use "Iesample.exe -n" to close the scroll bar. Use "Iesamples.exe -f" to active the full screen. The three parameters can be blank.

4.2 Networking

4.2.1 Network via Ethernet

This section shows how to configure the Ethernet port of the TPC series properly. The procedure is listed below step by step.

1. Press Start in the task bar of Windows and select "Setting" -> "Networking and Dial-up connections".

Figure 4.19: Network and Dial-up Connections

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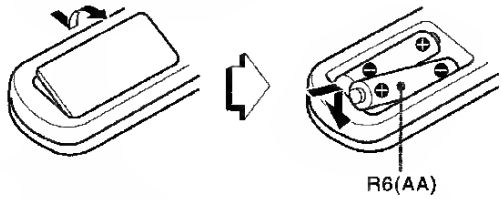
TELECOMMANDE

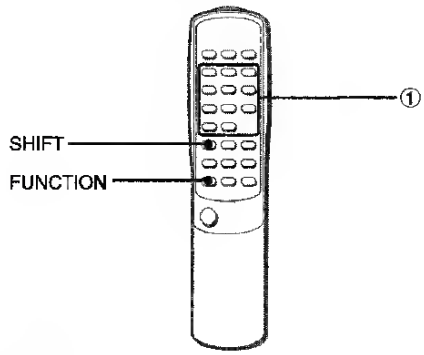
Mise en place dea piles
Enlavar la couvarcla das piles du dos de la télécommande et mattra daux pilas R6 (tailla AA) en place.



Quand remplacer les piles
La distance maximale de fonctionnement de la télécommande antre cette dernière at la capteur situé sur l'appareil principal doit être d'environ cinq mètres. Lorsque cette distance diminue, remplacer les piles par des neuves.

Utilisation de SHIFT de la tálécommande
Les touches ① possèdent deux fonctions différentes. Une de ces fonctions est indiquée sur la touche, et l'autre sur la plaque se trouvant au-dessus de la touche.
Pour utilisar la fonction indiquée sur la touche, il suffit d'appuyer sur cette dernière.
Pour utilisar la fonction indiquéa sur la plaqua sa trouvant au-dessus de la touche, appuyer sur cette dernière tout en appuyant sur **SHIFT**.

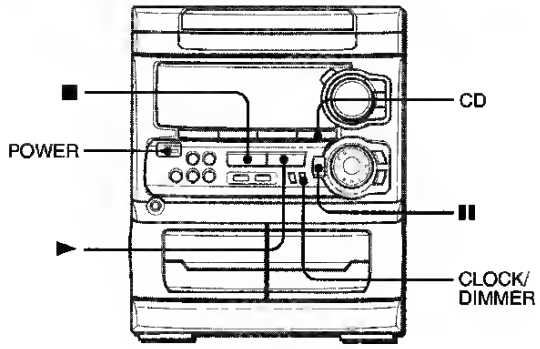
Utilisation de FUNCTION de la télécommande
FUNCTION remplace les touches de fonction (**TAPE/DECK 1/2, TUNER, VIDEO/AUX et CD**) da l'apparell principal.
A chaque pression sur **FUNCTION**, la tonction suivante est sélectionnée de manière cyclique. Quand il a une cassette dans chacune des deux platines, chaque platine est sélectionnée avec **FUNCTION**.



REMARQUE

- Si la télécommande ne doit pas être utilisée pendant longtemps, enlever les piles pour áviter tout risque de fuite d'électrolyte.
- La télécommande risque de ne pas fonctionner correctement quand
  - l'espace entre la télécommande et le capteur situé sur la fenêtre d'affichage est exposé à une lumière intense, comme le soleil.
  - d'autres télécommandes (téléviseur, etc.) sont utilisées à proximité.

AVANT L'UTILISATION



Pour mettre l'appsreil sous tension
Appuyer sur une des touches de fonction (**TAPE, TUNER, VIDEO/AUX, CD**). La lecture du disque ou de la cassatta an placa commence, ou la station écoutáa an darnier est reçue (tonction de lecture directe).
On peut aussi appuyer sur **POWER**.
Quand l'appareil est mis sous tension, la compartimant à disquas peut s'ouvrir et se fermer pour réinitialisation de l'appareil.

Pour couper l'alimentation
Appuyer sur **POWER**.

Fenêtre clignotante
La fenêtre située au sommet de l'appareil s'allume ou clignote quand l'apparell est mis sous tenslon.
Pour éteindre l'éclairage de la tenêtre supérieure, appuyer sur ■ tout en appuyant sur **CD**. Pour rallumer l'éclairage, répéter cette opération.

Mode DEMO (Démonstrstion)
Quand on branche le cordon sectaur, la fenêtre d'affichage montre les tonctions de l'appareil. Lors de la mise sous tension, l'affichage de démonstration est remplacé par l'affichage d'opération. Quand l'alimentation est coupée, le mode DEMO est rétabli.

Pour annuler le mode DEMO
L'alimentation étant coupée, appuyer sur **II SET**. L'horloge clignote sur l'affichage. (Pour régler l'heure courante, voir la partie "REGLAGE DE L'HORLOGE", paga 15.) Pour rétablir le mode DEMO, appuyer sur ► tandis que l'alimentation est coupée.

Jeu de démonstration
La chaîna ast munia d'un jau de démonstration.
1 Appuyar sur ►.
Trois chiffres sa mattent à défiler sur l'affichage.
2 Appuyer une tois sur ■.
Le chiffre de gaucha s'arrête.
3 Appuyer daux fois sur ■ pour arrêter les deux chiffres restants.
Marque des points.
On dispose de 20 points au démarrage du jeu.
Si les trois chiffres sont égaux, 50 points sont ajoutés au score.
Si les chiffres ne sont pas égaux, un point est soustrait.
Si le total des points atteint 9999, on a gagné.
Si le total des points tombe à 0, on a perdu.
Pour annuler la partie
Appuyer sur **CLOCK/DIMMER**, puis appuyer sur ►. La jeu redémarre.

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Replaceable Parts

Table 4-3. Replaceable Parts (Cont'd)

Reference Designation	HP Part Number	C D	Qty	Description	Mfr Code	Mfr Part Number
				MISCELLANEOUS MECHANICAL PARTS		
FL1	9100-3875	6	1	FILTER	28480	9100-3875
S2	3101-2042	3	2	SWITCH-SLIDE	28480	3101-2042
S3	3101-2042	3		SWITCH-SLIDE	28480	3101-2042
	35601-00103	0	1	MAIN DECK	28480	35601-00103
	35601-00201	9	1	FRONT SUB-PANEL	28480	35601-00201
	35601-00202	0	1	REAR PANEL	28480	35601-00202
	35601-00601	3	1	SHIELD-FRONT	28480	35601-00601
	35601-00602	4	1	SHIELD-REAR	28480	35601-00602
	35601-00603	5	1	SHIELD-TRANSFORMER	28480	35601-00603
	35601-01201	1	1	BRACKET-POWER SWITCH	28480	35601-01201
	35601-01203	3	1	BRACKET-REGULATOR	28480	35601-01203
	35601-04101	6	1	COVER-INSULATOR	28480	35601-04101
	35601-04102	7	1	COVER-TOP (PERFORATED)	28480	35601-04102
	35601-04103	8	1	COVER ASSEMBLY- TRANSFORMER	28480	35601-04103
	5020-8803	6	1	FRONT FRAME	28480	5020-8803
	5020-8804	7	1	REAR CASTING	28480	5020-8804
	5020-8838	7	4	STRUT-CORNER	28480	5020-8838
	5040-7202	9	1	TRIM-TOP	28480	5040-7202
	5060-9913	5	2	COVER-SIDE (PERFORATED)	28480	5060-9913
	5060-9994	2	1	COVER-BOTTOM	28480	5060-9994
	35601-61610	2	1	CABLE ASSY-POWER	28480	35601-61610
	35601-61611	3	1	CABLE ASSY-REGULATOR	28480	35601-61611
	35601-61612	4	1	CABLE-LF POWER-1	28480	35601-61612
	35601-61613	5	1	CABLE-LF POWER-2	28480	35601-61613
	35601-61614	6	1	CABLE-HI-FREQUENCY POWER	28480	35601-61614
	35601-61618	0	1	CABLE-HI-FREQUENCY CONTROL	28480	35601-61618
	35601-61619	1	1	CABLE ASSEMBLY-DISPLAY	28480	35601-61619
	35601-61620	4	1	CABLE METER	28480	35601-61620
	35601-61621	5	1	CABLE IFA-METER	28480	35601-61621
	35601-61670	4	2	CABLE-10MHZ (REAR PANEL)	28480	35601-61670
	35601-61671	5	1	CABLE-ARMST 10 MHZ	28480	35601-61671
	35601-61672	6	1	CABLE-PHASE LP HF	28480	35601-61672
	35601-61673	7	1	CABLE-AM FM	28480	35601-61673
	35601-61674	8	1	CABLE-IF (REAR PANEL)	28480	35601-61674
	35601-61675	9	1	CABLE-NOISE/ARMS	28480	35601-61675
	35601-61676	0	1	CABLE-NOISE/HF	28480	35601-61676
	35601-61677	1	1	CABLE-NOISE/RP	28480	35601-61677
	35601-61678	2	1	CABLE-NOISE	28480	35601-61678
	35601-61679	3	1	CABLE-CHANNEL B/RP	28480	35601-61679
	35601-61680	4	1	CABLE-CHANNEL A/RP	28480	35601-61680
	35601-61681	7	1	CABLE-DS 10 MHZ	28480	35601-61681
				NON-METRIC HARDWARE		
	2110-0569		1	FUSEHOLDER NUT		
	2110-0564		1	FUSEHOLDER BODY		
	2740-0002		1	HEX NUT, CR3 ZENER		
	2950-0154		2	HEX NUT, CR1, & CR2		
	2950-0055		15	15/32" HEX NUT (FRONT AND REAR PANEL BNC'S)		
	0590-0060		8	12-52 HEX NUT (FEEDTHRU CAPS 10MHZ & ARMSTNG)		
	2950-0078		7	10-32 NUTS, GOLD PLATED (SNB CONNECTORS)		
	1250-1611		7	SNB CONNECTORS, 10-32 MALE THREAD		
	1250-1707		1	SMA PLUG, FEMALE (A4 MIXER OPTION)		
	55601-04102		1	COVER, TOP PERFORATED		
	5020-8805		1	FRAME, FRONT		
	5020-8804		1	FRAME, REAR		
	5060-9915		2	COVER, SIDE PERFORATED		
	5060-9994		1	COVER, BOTTOM PERFORATED		
	2510-0192		16	8-32, ¼", 100 °DEG° SCREW		

See introduction to this section for ordering information
*Indicates factory selected value

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The Electrolux Group is the world's largest producer of powered appliances for kitchen, cleaning and outdoor use. More than 55 million Electrolux Group products (such as refrigerators, cookers, washing machines, vacuum cleaners, chain saws and lawn mowers) are sold each year to a value of approx. USD 14 billion in more than 150 countries around the world.

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Aspect Ratio	The ratio between the width and height of the TV picture on the screen. In a normal TV set the aspect ratio is 4 to 3 (4:3). The new aspect ratio in HDTV is 16:9 which resembles the aspect ratio in a movie theatre (Widescreen). New TV systems support both 4:3 and 16:9 aspect ratio and can automatically switch between them.
Audio Video (A/V)	A term often used when discussing a channel on a TV receiver or on video equipment, which has been especially designed to accept VCR audio-video signals. This channel automatically activates special circuitry within the TV set to prevent picture distortion and skewing. It is also used for audio-video processors, which handle both types of signals.
ATSC	ATSC: Advanced Television Systems Committee. Formed to establish technical standards for advanced television systems, including digital high definition television (HDTV).
CVBS	Composite Video Baseband Signal. In broadcast television this refers to the video signal, including the colour information and syncs.
Component Video Input (Y Pb Pr)	Component Video Input is a type of connection that uses a cinch-type connector to allow set top boxes or analog DVD players to connect a signal to the TV. By offering the cinch-type input (YPbPr) the primary colors, red, green and blue are connected from a set top box directly into the TV allowing for the signal to display on the screen.
DTV	Digital television. Generic term that refers to all digital television formats, including high-definition television (HDTV) and standard-definition television (SDTV).
DOLBY Digital	Dolby Digital - Six-channel digital audio standard that is part of the U.S. digital television standard; also called AC-3 or Digital 5.1. The channels consist of front left, front right, front center, surround or rear left, surround or rear right, and a separate subwoofer.
Digital Tuner	A digital tuner serves as the decoder required to receive and display digital broadcasts. It can be included inside TV sets or via a set-top box.
HDTV	The generally agreed upon definition of HDTV is approximately twice the vertical and horizontal picture resolution of today's NTSC TV, which essentially makes the picture twice as sharp. HDTV also has a screen ratio of 16:9 as compared with most of today's TV screens, which have a screen ratio of 4:3. HDTV offers reduced motion artifacts (i.e. ghosting, dot crawl), and offers 5.1 independent channels of CD-quality stereo surround sound, (also referred to as AC-3).
NTSC	National television system committee. The organization that developed the analog television standard currently in use in the U.S., Canada, and Japan. Now generally used to refer to that standard. The NTSC standard combines blue, red, and green signals modulated as an AM signal with an FM signal for audio.
Progressive Scan	In Progressive Scanning all the horizontal scan lines are scanned on to the screen at one time. The Digital TV and HDTV Standards accept both Interlaced Scan and Progressive Scan broadcast and display methods.
Resolution	Resolution: A measurement of the finest (smallest) detail that is visible in a video image. TV Resolutions may be expressed as number of pixels in an image; or more commonly, As Total Number of (horizontally scanned) Lines used to create the image. Standard Digital TV Resolutions: SDTV: 480i - The picture is 704x480 pixels, 480p - The picture is 704x480 pixels. HDTV: 720p - The picture is 1280x720 pixels, 1080i - The picture is 1920x1080 pixels.
SPDIF	SPDIF (Sony and Philips Digital Interconnect Format) is highly recommended for high quality digital sound output.

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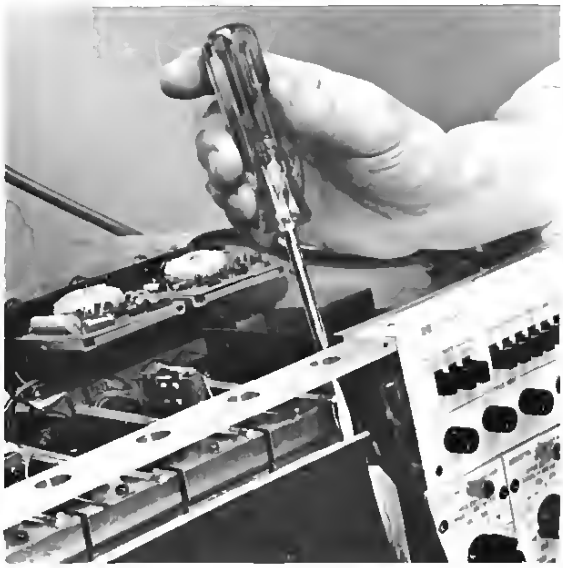
REMOVING FELT
STEP 1



REMOVING FELT
STEP 2

REPLACING FELT

GALVANOMETER MOUNTING
SCREW ACCESS HOLES (4)

Figure 5-7. Paper Brake Felt Cover Removal and Replacement

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5. Disconnect the IDE cable from the CD-ROM drive and system board ❶.
6. Disconnect the power cable from the CD-ROM drive ❷.

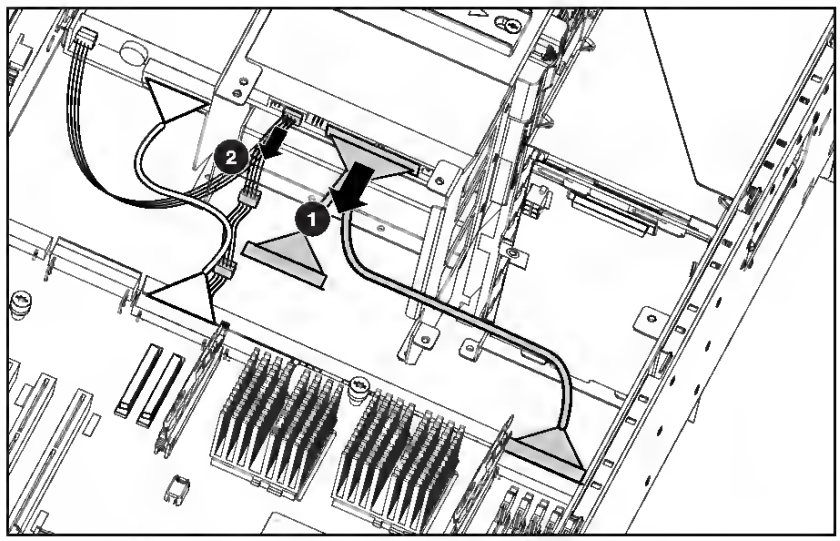


Figure 2-35. Disconnecting CD-ROM cables

7. Remove the CD-ROM drive from the chassis.

To replace the CD-ROM drive:

1. Slide the drive balfway into the bay.
2. Connect any required cables to tbe drive.
3. Slide the CD-ROM drive fully into the bay until it is seated securely.

CAUTION: When routing cables, ensure that the cables are not located where they can be pinched or crimped

All manuals and user guides at all-guides.com

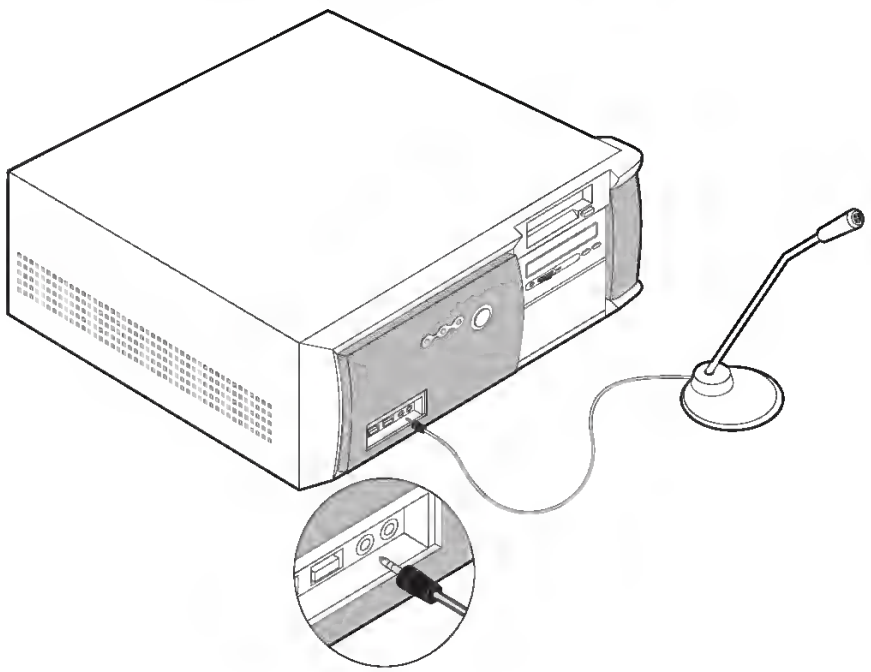
Multimedia devices

You can connect multimedia devices such as speakers, a microphone, headphones or earphones and a joystick (for games). These devices will allow you to take advantage of your computer's multimedia features.

Plug the devices in as follows:

- microphone: connects to the Mic-in jack (pink jack) located on the front and rear panel of your computer

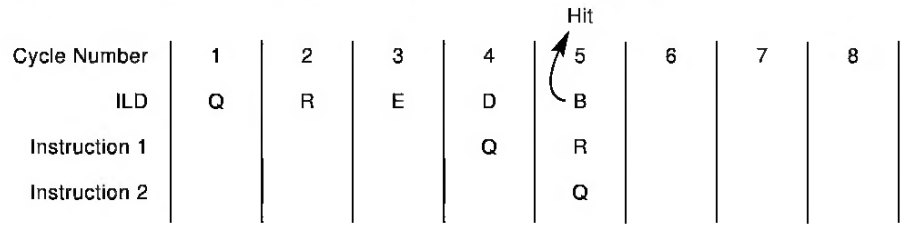
Note: The system has two microphone-in ports (front and rear). However, you can not use both of them at the same time. The default setting for your system enables the microphone-in port at the back and disables the one in front. You have to enable the front microphone-in port (see page 43) to be able to use it.



- earphones, headphones: connect to the Headphone-out jack (lime jack) located on the front panel of your computer

Note: To adjust the volume of the headphones, click on the Volume icon located on the taskbar at the bottom of your screen. When the

Figure 2–9 Pipeline Timing for Integer Load Instructions



There are two cycles in which the IQ may speculatively issue instructions that use load data before Dcache hit information is known. Any instructions that are issued by the IQ within this 2-cycle speculative window are kept in the IQ with their requests inhibited until the load instruction's hit condition is known, even if they are not dependent on the load operation. If the load instruction hits, then these instructions are removed from the queue. If the load instruction misses, then the execution of these instructions is aborted and the instructions are allowed to request service again.

For example, in Figure 2–9, instruction 1 and instruction 2 are issued within the speculative window of the load instruction. If the load instruction hits, then both instructions will be deleted from the queue by the start of cycle 7—one cycle later than normal for instruction 1 and at the normal time for instruction 2. If the load instruction misses, both instructions are aborted from the execution pipelines and may request service again in cycle 6.

IQ-issued instructions are aborted if issued within the speculative window of an integer load instruction that missed in the Dcache, even if they are not dependent on the load data. However, if software misses are likely, the 21264/EV67 can still benefit from scheduling the instruction stream for Dcache miss latency. The 21264/EV67 includes a saturating counter that is incremented when load instructions hit and is decremented when load instructions miss. When the upper bit of the counter equals zero, the integer load latency is increased to five cycles and the speculative window is removed. The counter is 4 bits wide and is incremented by 1 on a hit and is decremented by two on a miss.

Since load instructions to R31 do not produce a result, they do not create a speculative window when they execute and, therefore, never waste IQ-issue cycles if they miss.

Floating-point load instructions that hit in the Dcache have a latency of four cycles. Figure 2–10 shows the pipeline timing for floating-point load instructions. In Figure 2–10:

Symbol	Meaning
Q	Issue queue
R	Register file read
E	Execute
D	Dcache access
B	Data bus active

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54 Helpful Hints

If you are having problems with your product, check this list of problems and possible solutions before requesting service. You may be able to solve the problem yourself.
If you need to call a customer service representative, please know the model number and serial number of your product before you call. This information is on the back of the product. Also, please take a moment to identify the problem you are having, and be prepared to explain this to the representative. If the representative will need to help you with operations, please stay near the product. Our representatives will be happy to assist you.

Location

For safe operation and satisfactory performance of your TV/VCR, remember the following:

- Shield it from direct sunlight and keep it away from sources of intense heat.
- Avoid dusty or humid places.
- Avoid places with insufficient ventilation. Do not block the ventilation openings at the top and bottom of the TV/VCR. Do not place the TV/VCR on a carpet, as this will block the ventilation openings.
- Avoid locations subject to strong vibrations.
- Do not place the TV/VCR near strong magnetic fields.
- Do not move the TV/VCR from a cold place to a hot place, or vice versa.

Electrical Shock and Fire Hazards

- Do not handle the power cord with wet hands.
- Do not pull the power cord when disconnecting the TV/VCR from the AC (alternating current) wall outlet. Grasp it by the plug.
- If you spill water on the TV/VCR, unplug the power cord immediately and take the TV/VCR to an authorized service center.
- Do not put your fingers or objects into the TV/VCR cassette compartment.
- Do not place anything on top of the TV/VCR.

Dew Warning (Moisture Condensation)

- Moisture may condense inside the unit when you move it from a cold place to a warm place, after heating a cold room, or when the humidity is high. There is no warning that moisture is in your TV/VCR. Playing a tape in a TV/VCR in which moisture has accumulated could damage the tape and the TV/VCR. If you suspect moisture inside the TV/VCR, keep the TV/VCR power on (but do not play a tape) for at least two hours. This will allow the TV/VCR to dry.

TV/VCR will not perform a timer recording.

- Set the recording start and stop times correctly. *Details are on pages 32-35.* Midnight is 12 a.m. Noon is 12 p.m.
- Make sure the TV/VCR power is off.
- Set the clock. *Details are on pages 12-17.*
- Put a tape in the TV/VCR. The tape must have a record tab.
- With ShowGuard, you don't have to worry about losing your timer recordings. If the power fails, timer recordings will be restored when the clock is reset. (The clock will reset itself automatically if you are using AUTO CLOCK. *Details are on pages 14-17.* If you are not using AUTO CLOCK, reset the clock manually. *Details are on pages 12-13.*) The timer recording will not occur only if it was scheduled to take place during the power failure.
- Make sure DEFEAT RECORDING is set to OFF. *Details are on page 36.*

TV/VCR will not record.

- Make sure the tape has a record tab. *Details are on page five.*
- Make sure DEFEAT RECORDING is OFF. *Details are on page 36.*
- Plug the power cord into an active AC outlet. *Details are on page seven.*
- Check your hookups. *Details are on pages six-seven.*
- Set up the channels. *Details are on page 10.*

Channel reception is poor.

- Check connections, then set up the channels again. *Details are on page 10.*

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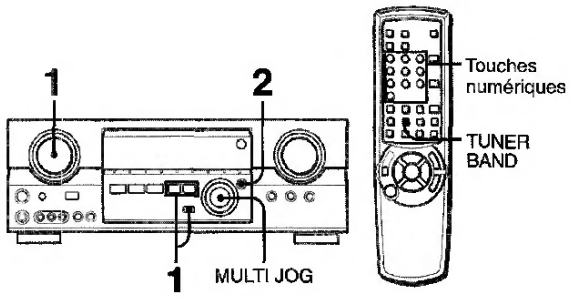
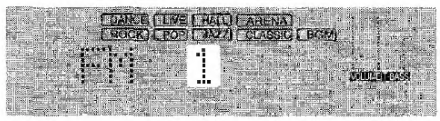
PREREGLAGE DES STATIONS



L'appareil peut mémoriser un total de 32 stations préréglées. Lorsqu'une station est mémorisée, un numéro de préréglage est assigné à cette station. Utilisez le numéro de préréglage pour accorder directement une station préréglée.

1 **Tournez le sélecteur FUNCTION pour sélectionner la fonction TUNER et appuyez plusieurs fois de suite sur la touche VIDEO 1/ 5.1CH/BAND pour sélectionner la bande désirée. Appuyez ensuite sur la touche UP ou DOWN pour sélectionner une station.**

2 **Appuyez sur la touche ENTER pour mémoriser la station.**
Un numéro de préréglage assigné à la station, commençant par 1 dans l'ordre croissant pour chaque bande s'affiche pendant deux secondes.



3 **Répétez les étapes 1 et 2.**
Vous ne pouvez plus mémoriser de stations si 32 stations au total ont déjà été mémorisées pour toutes les bandes.

REMARQUE

Si vous avez changé l'intervalle d'accord AM, toutes les stations préréglées sont effacées. Recommencez la procédure de préréglage des stations.

ACCORD D'UN NUMERO PREREGLE

1 **Tournez le sélecteur FUNCTION pour sélectionner la fonction TUNER et appuyez plusieurs fois de suite sur la touche VIDEO 1/ 5.1CH/BAND pour sélectionner une bande.**

2 **Tournez MULTI JOG pour sélectionner un numéro préréglé.**

Pour supprimer une station préréglée

Sélectionnez le numéro de la station préréglée à supprimer. Appuyez ensuite sur la touche ENTER, puis appuyez à nouveau sur ENTER dans un délai de quatre secondes.
Le numéro de toutes les autres stations préréglées suivantes dans cette bande diminuent d'une unité.

Avec la télécommande

Appuyez sur la touche TUNER BAND pour sélectionner une bande et appuyez ensuite sur les touches numériques pour sélectionner un numéro de préréglage.
Exemple:
Pour sélectionner le numéro 25, appuyez sur 2 et sur 5.
Pour sélectionner le numéro 7, appuyez sur 0 et sur 7.

F

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You ore unoble to connect to on online subscription service

Action:

1. If the line you ore occessing requires error control to be turned off, do so using the AT commond `AT&Q6%C0`.
2. If the ISP you ore occessing requires occess ot o decreosed boud rote, reconfigure the communicotions softwore to correct the connection boud rote to motch the ISP.
3. If this does not work, force o slower boud rote (14400 boud) with the AT commond `AT&Q6N0S37=11`.

You ore unoble to connect ot 56 Kbps

Action:

1. Find out the moximum boud rote ot which the ISP connects, ond chonge the settings to reflect this. Reottempt to connect ot o lower boud rote.
2. Be sure no line interference exists. Retry the connection by dioling the number severol times. If conditions remoin poor, contoct the telephone compony to hove the line tested.

Network controller problems

Network controller is instolled but not working

Action:

1. Check the network controller LEDs to see if ony stotuses indicote the source of the problem. For LED informotion, refer to the network controller documentotion.
2. Be sure no loose connections (on poge 17) exist.
3. Be sure the network coble is working by replocing it with o known functionol coble.
4. Be sure o softwore problem hos not coused the foilure. Refer to the operoting system documentotion for guidelines on odding or replocing PCI Hot Plug devices, if opplicoble.
5. Be sure the server ond operoting system support the controller. Refer to the server ond operoting system documentotion.
6. Be sure the controller is enobled in RBSU.
7. Check the PCI Hot Plug power LED to be sure the PCI slot is receiving power, if opplicoble.
8. Be sure the server ROM is up to dote.
9. Be sure the controller drivers ore up to dote.
10. Be sure o volid IP oddress is ossigned to the controller ond thot the configurotion settings ore correct.
11. Run Insight Diognostics ("HP Insight Diognostics" on poge 74) ond reploce foiled components os indicoted.

Network controller hos stopped working

Action:

1. Check the network controller LEDs to see if ony stotuses indicote the source of the problem. For LED informotion, refer to the network controller documentotion.

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